SAMSUNG

ELECTRONICS

SERVICE MANUAL

DVD-V4300/V4600

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Printed in Korea
AK82-00516A

SAMSUNG

DVD-VCR COMBINATION

Chassis : Kaiser
DVD-V4300
DVD-V4600

SERVICE *Manual*

If you want to know additional information which is not included on this Service Manual, please refer to the DVD-V4600 Training Manual (AK82-00460A).

DVD-VCR COMBINATION

DVD-V4300

DVD-V4600

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1. Precautions
2. Alignment and Adjustment
3. Exploded Views and Parts List
4. Electrical Parts List
5. Block Diagram
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IMPORTANT SERVICE GUIDE

◆ MODE SWITCH (PROGRAM SWITCH) ASSEMBLY POINT

1) When installing the ass'y deck on the Main PCB, be sure to align the assembly point of mode switch.

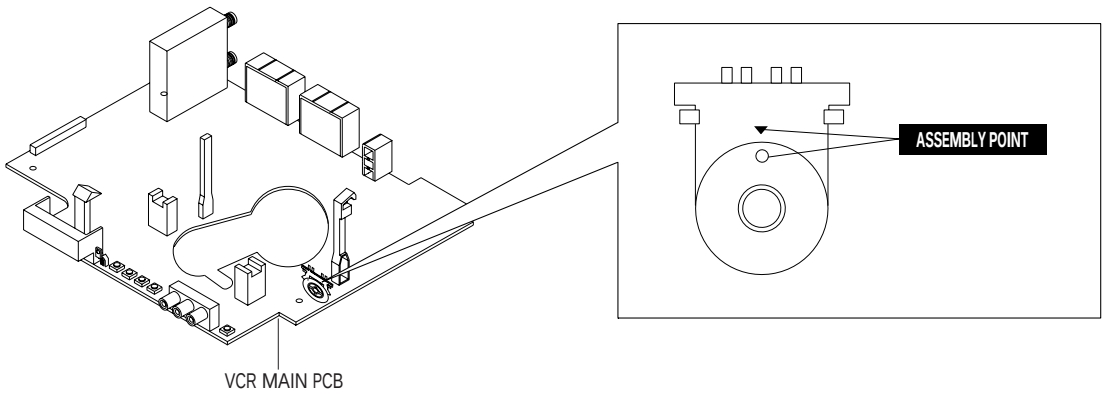


Fig. 1

◆ HOW TO EJECT THE CASSETTE TAPE (If the tape is stuck in the unit)

1) Turn the Gear Worm ❶ clockwise in the direction of arrow with a screwdriver. (See Fig. 2)
   (Other method ; Remove the screw of Motor Load Ass'y, Separate the Motor Load Ass'y)
2) When Slider S, T approachs the unloading position, rotate holder Clutch counterclockwise after inserting screwdriver in the frame's bottom hole in order to wind the unwound tape. (Refer to Fig. 3)
   (If you rotate Gear Worm ❶ continuously when tape is unwinding, you may cause tape contamination by grease and tape damage. Be sure to wind the unwound tape with the unit in the horizontall position.)
3) Rotate Gear Worm ❶ clockwise using a screwdriver until the mecha is in the eject state. Remove the tape. (Refer to Fig. 2)

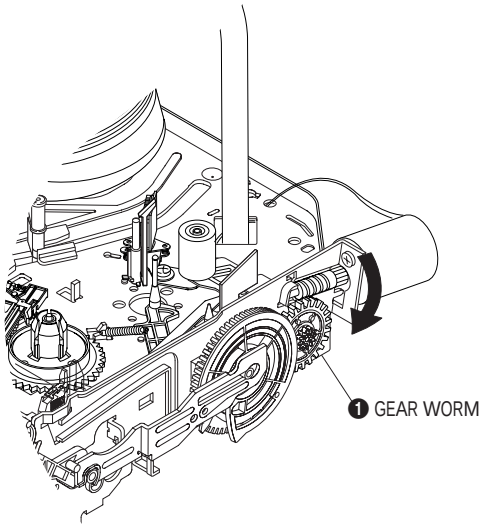


Fig. 2

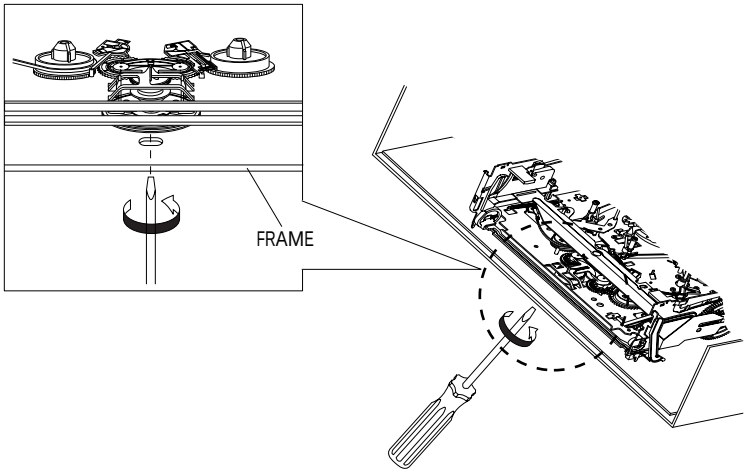


Fig. 3

1. Precautions

1-1 Safety Precautions

1) Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

(1) Be sure that no built-in protective devices are defective or have been defeated during servicing. (1)Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.
(2)When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fish papers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

(2) Be sure that there are no cabinet openings through which adults or children might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

(3) Leakage Current Hot Check-With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1270 (40.7). With the instrument's AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinets, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis.
Any current measured must not exceed 0.5mA. Reverse the instrument power cord plug in the outlet and repeat the test. See Fig. 1-1.
Any measurements not within the limits specified herein indicate a potential shock hazard that must be eliminated before returning the instrument to the customer.

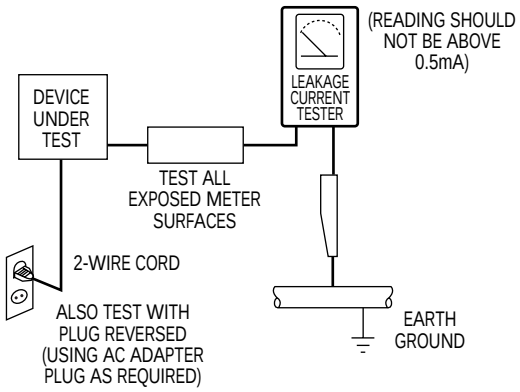

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METER SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

(4) Insulation Resistance Test Cold Check-(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the instrument. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and all exposed metallic cabinet parts on the instrument, such as screwheads, antenna, control shafts, handle brackets, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 1 and 5.2 megohm. When there is no return path to the chassis, the reading must be infinite. If the reading is not within the limits specified, there is the possibility of a shock hazard, and the instrument must be repaired and rechecked before it is returned to the customer. See Fig. 1-2.

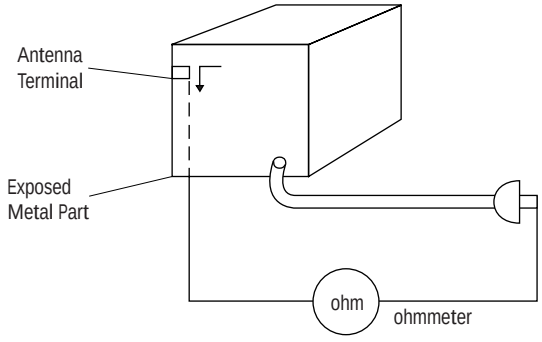


Fig. 1-2 Insulation Resistance Test

2) Read and comply with all caution and safety related notes on or inside the cabinet, or on the chassis.

3) Design Alteration Warning-Do not alter or add to the mechanical or electrical design of this instrument. Design alterations and additions, including but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4) Observe original lead dress. Take extra care to assure correct lead dress in the following areas:
(1) near sharp edges, (2) near thermally hot parts (be sure that leads and components do not touch thermally hot parts), (3) the AC supply, (4) high voltage, and (5) antenna wiring. Always inspect in all areas for pinched, out-of-place, or frayed wiring, Do not change spacing between a component and the printed-circuit board. Check the AC power cord for damage.

5) Components, parts, and/or wiring that appear to have overheated or that are otherwise damaged should be replaced with components, parts and/ or wiring that meet original specifications.
Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

6) Product Safety Notice-Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by shading, an (⚠)or a (⚠)on schematics and parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

CAUTION : Before servicing units covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note : If unforseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

1-2-1 General Servicing Precautions

(1) a. Always unplug the instrument's AC power cord from the AC power source before (1) re-moving or reinstalling any component, circuit board, module or any other instrument assembly, (2) disconnecting any instrument electrical plug or other electrical connection, (3) connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

b. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

c. Do not apply AC power to this instrument and /or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

d. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Note : Refer to the Safety Precautions section ground lead last.

(2) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.

(3) The components used in the unit have a specified flame resistance and dielectric strength.
When replacing components, use components which have the same ratings. Components identified by shading, by(⚠) or by (⚠) in the circuit diagram are important for safety or for the characteristics of the unit. Always replace them with the exact replacement components.

(4) An insulation tube or tape is sometimes used and some components are raised above the printed wiring board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install such elements as they were.

(5) After servicing, always check that the removed screws, components, and wiring have been installed correctly and that the portion around the serviced part has not been damaged and so on. Further, check the insulation between the blades of the attachment plug and accessible conductive parts.

1-2-2 Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power ON. Connect the insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts(see note) should be more than 1 Megohm.

Note : Accessible conductive parts include metal panels, input terminals, earphone jacks, etc.

1-3 ESD Precautions

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components commonly are called Electrostatically Sensitive Devices(ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

(1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

(2) After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

(3) Use only a grounded-tip soldering iron to solder or unsolder ESD devices.

(4) Use only an anti-static solder removal devices. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ESD devices.

(5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.

(6) Do not remove a replacement ESD device from its protective package until immediately before your are ready to install it.(Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).

(7) Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

(8) Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

1-4 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

(1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)

(2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.

(3) Place your hands on the conductive sheet(This gives them the same ground as the sheet.)

(4) Remove the optical pick up block

(5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.

- Be sure to put on a wrist strap grounded to the sheet.
- Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.

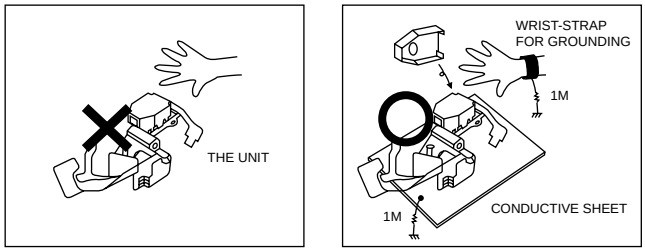


Fig.1-3

(6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)

(7) After replacing the Pick-up, open the short terminal on the PCB.

1-5 Pick-up disassembly and reassembly

1-5-1 Disassembly

1) Remove the power cord.
2) Disassemble the Deck-Assy.
3) Make solder land 2 points short on Pick-up.
   (See Fig. 1-4)
4) Disassemble the Pick-up.

1-5-2 Assembly

1) Replace the Pick-up.
2) Remove the soldering 2 points on Pick-up.
3) Reassemble the Deck-Assy.

Note : If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

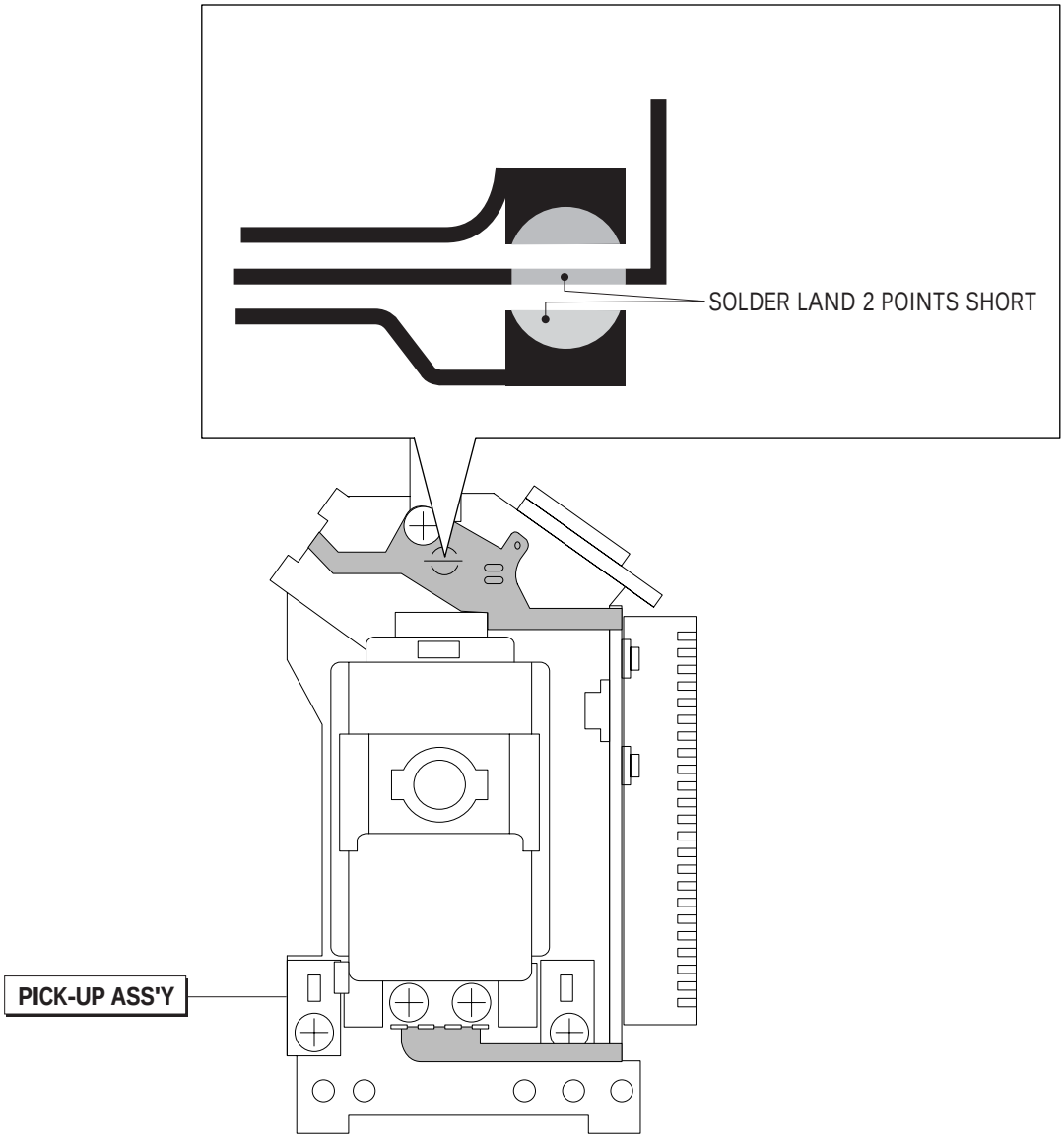


Fig. 1-4

2. Alignment and Adjustments

2-1 VCR Adjustment

2-1-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the Main PCB Micom (IC601) and NVRAM (IC603 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) How to adjust.
   - Intermittently short-circuit the Test Point on Main PCB with pincers to the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
   - When the adjustment is completed, be sure to turn the power off.

2-1-1(a) Location of adjustment button of remote control

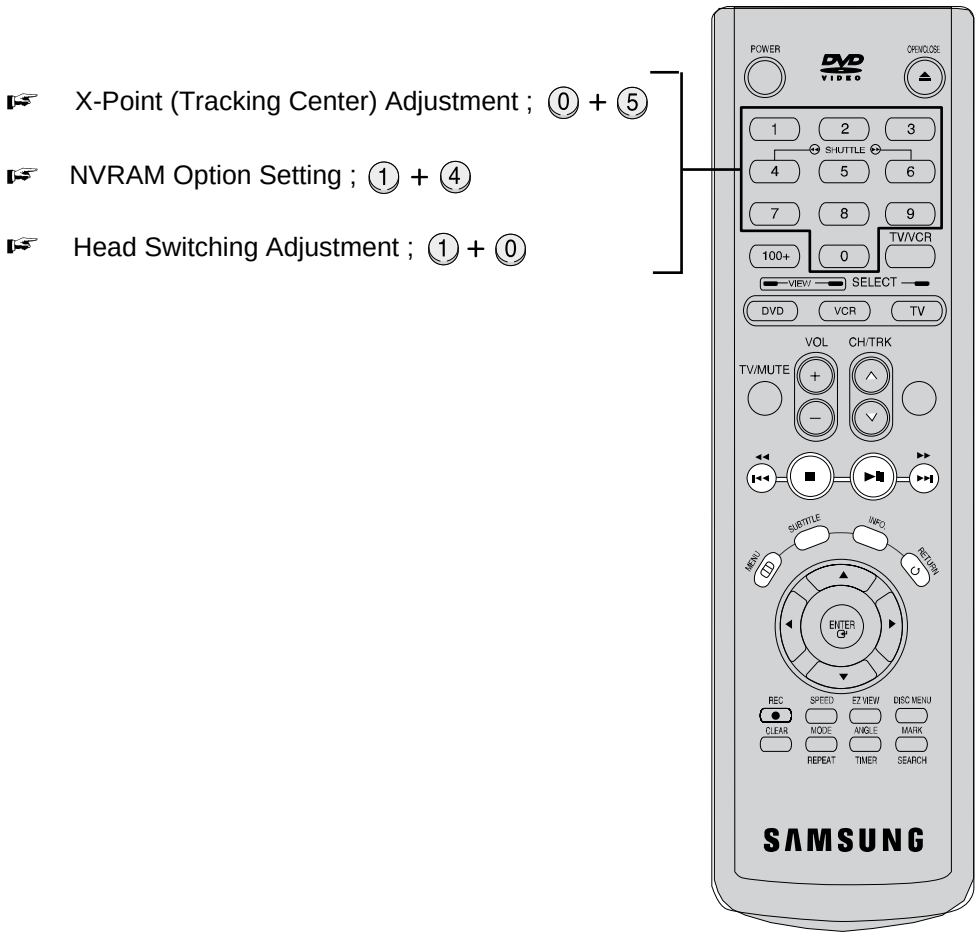


Fig. 2-1

2-1-1(b) TEST location for adjustment mode setting

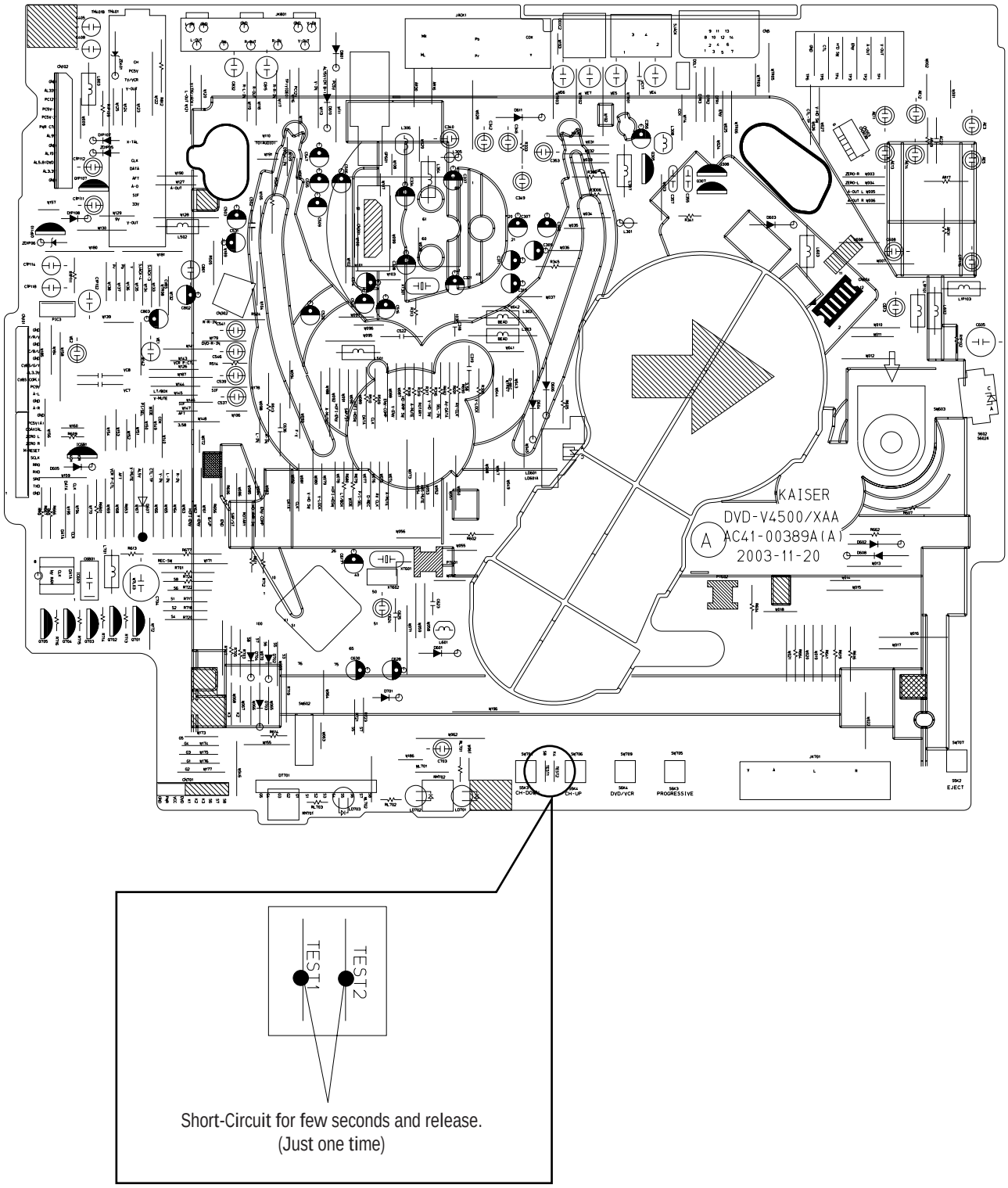


Fig. 2-2 VCR Main PCB (Top View)

2-1-2 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Intermittently short-circuit the two Test Points on VCR Main PCB while setting the adjustment mode. (See Fig. 2-2)
3) Press the “1, 0” buttons; remote control adjustment operates automatically. (See Fig. 2-1)

2-1-3 NVRAM Option Setting

1) NVRAM Option is adjusted in the factory.
2) In case Main PCB Micom (IC601) and NVRAM (IC603 ; EEPROM) are replaced, be sure to set the corresponding option number of the required model. (If the option is not set, the unit will not operate.)

1) Intermittently short-circuit the two Test Points on VCR Main PCB. (See Fig. 2-2)
2) Press the “1, 4” button on the remote control. The option setting appears. (See Fig. 2-3)
3) Select the option number (See table 2-1) of corresponding model with “◀, ▶, ▲, ▼” buttons on the remote control.
4) After selecting the option number is completed, press the “▲” button of remote control. (If “▲” button is pressed, the selected number is changescolor. ; See Fig. 2-4)
5) Press the “ENTER” button of remote control again to store the option number.
6) Turn the Power off.

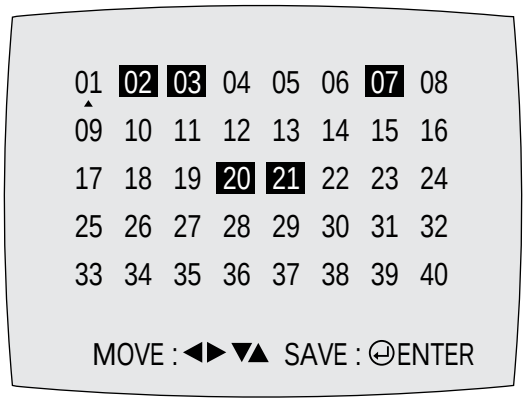


Fig. 2-3

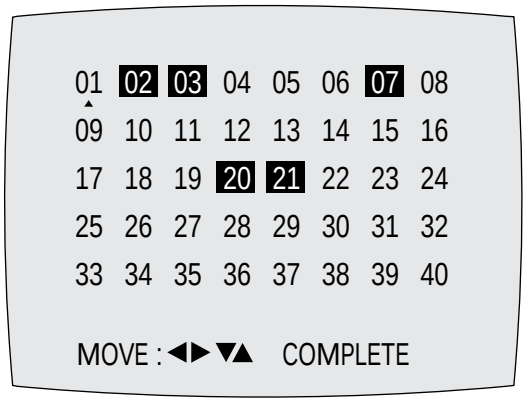


Fig. 2-4

<Table 2-1 NVRAM Option Table>

MODEL	OPTION NUMBERS
DVD-V4300	2, 7, 8, 9, 14, 16, 18, 22, 25, 28
DVD-V4600	2, 7, 8, 9, 14, 16, 18, 22, 25, 28

2-2 DVD Adjustment

2-2-1 Location of Test Point

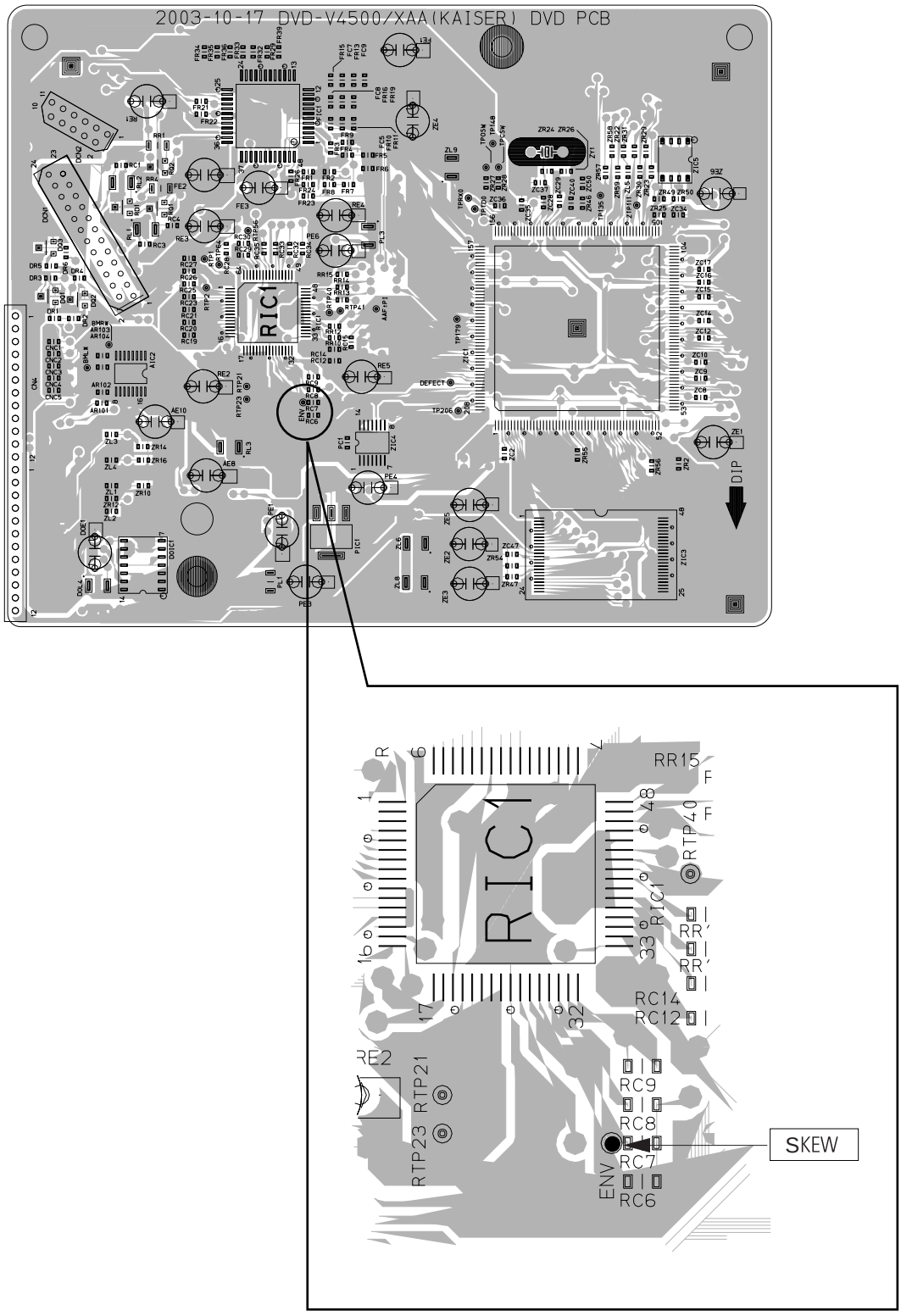


Fig. 2-5 Location of test Point (Main PCB - Top Side)

2-2-2 Skew Adjustment

2-2-2(a) Adjustment Spec. and Test Point

<Table 2-2>

◆ Test Disc ; Service not Available

Test Disc	Adjustment Spec.	Test Point	Adjustment Location
TDV-533 Chapter 14	Flat Waveform	"ENV" (DVD Main PCB - Top Side) (See Fig. 2-5)	Ass'y Deck - Top Side (See Fig. 2-6)

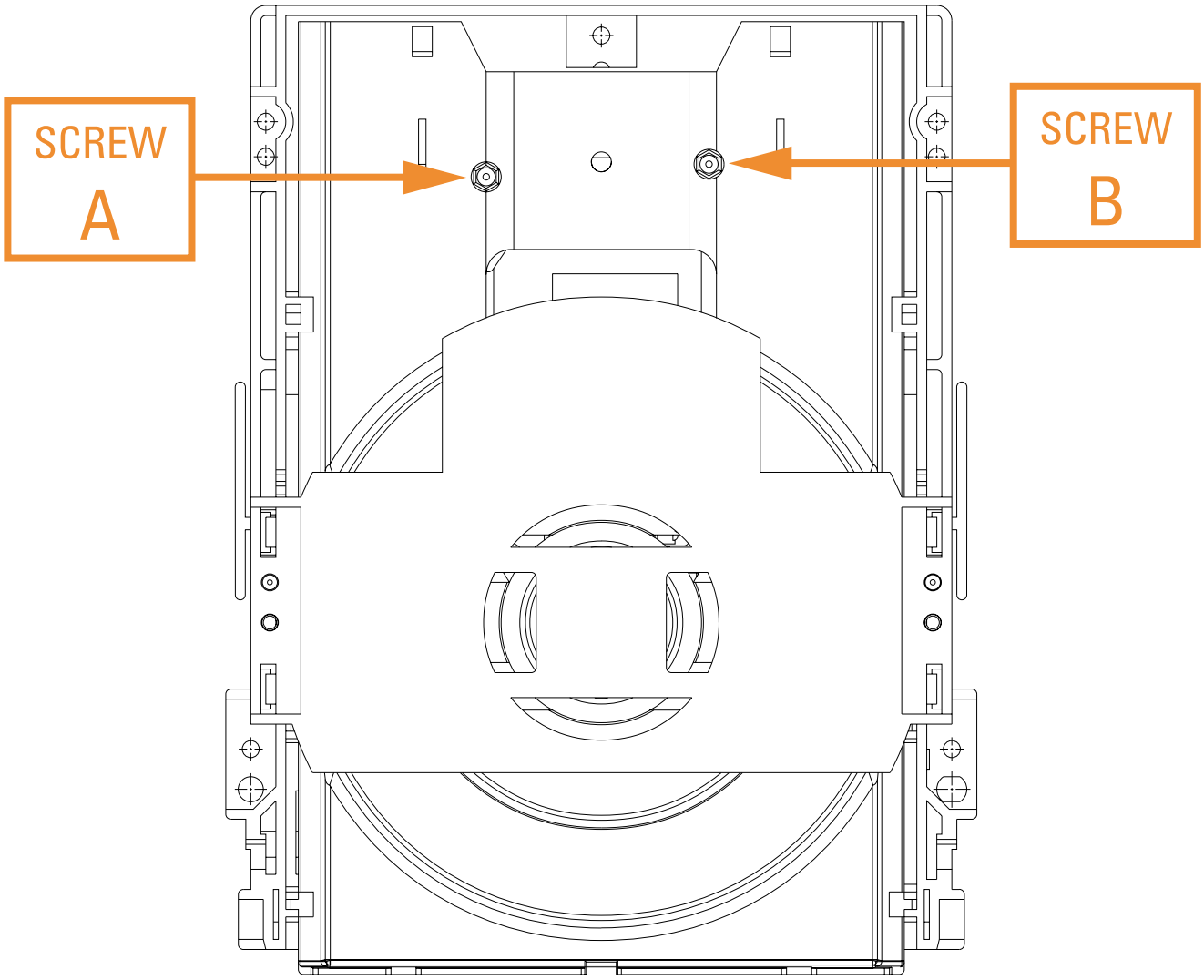


Fig. 2-6 Ass'y Deck (Top Side)

2-2-2(b) SKEW Adjustment Method

Needed to minimize the variations in Skew of the Pickup unit and to provide optimum match with the recorded signal on the Disc.

1) Connect an Oscilloscope to the “ENV” Test Point (See Fig. 2-5).
2) Connect Power, Open the Tray and Play Ch.14 Which is in the TDV-533 Disc.
   ◆ Set the Oscilloscope Range as follows :
   (Voltage ; 50mV / Div., Frequency ; 10m Sec.)
3) Adjust the Screws “A” and “B” (See Fig. 2-6) using a Hex screwdriver until you obtain a Flat Waveform and the picture is stable.
   Then, go to Chapter 1 and make sure the Waveform is Flat here as well.
   If not, you have to go back to Chapter 14 and adjust again.
   If you cannot obtain a Flat waveform, then the unit is defective.

Note : The Deck must be in a horizontal position. Use both “A” and “B” screws to adjust.

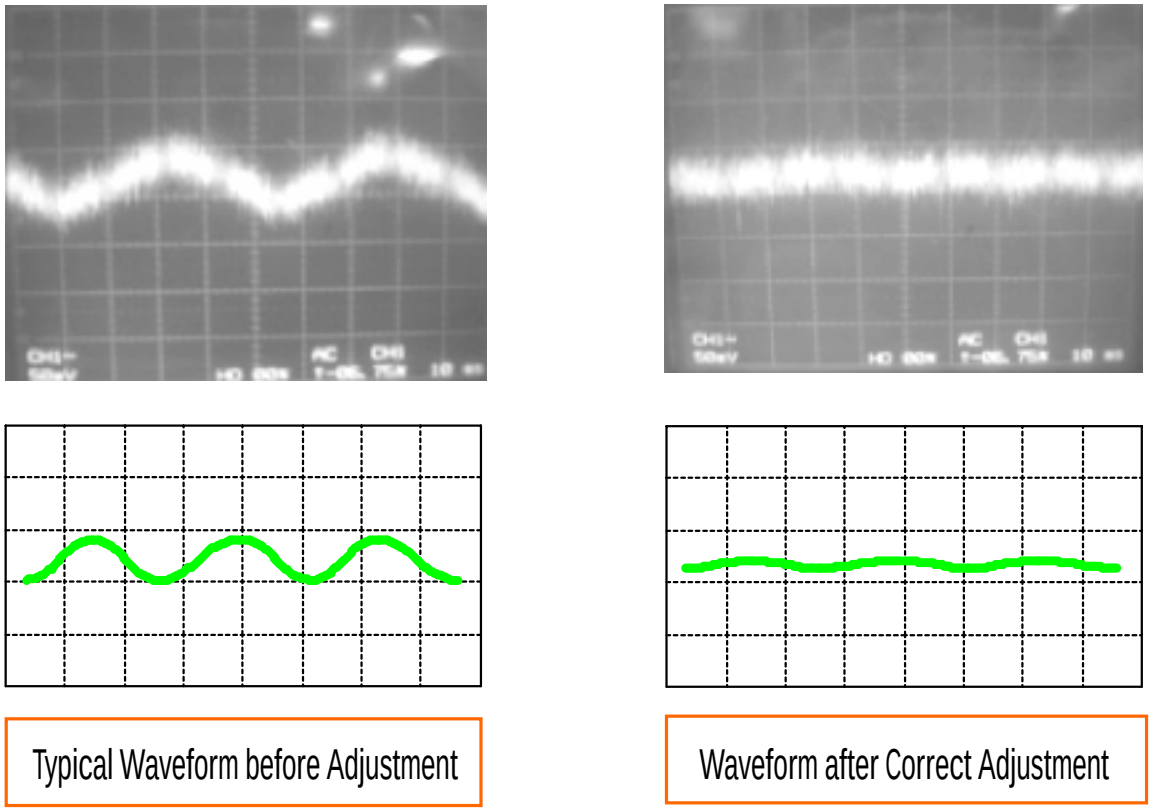


Fig. 2-7 Envelope Waveform

2-3 VCR Mechanical Adjustment

2-3-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following :
1) Noise observed on the screen.
2) Tape damage.
3) Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment.
To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

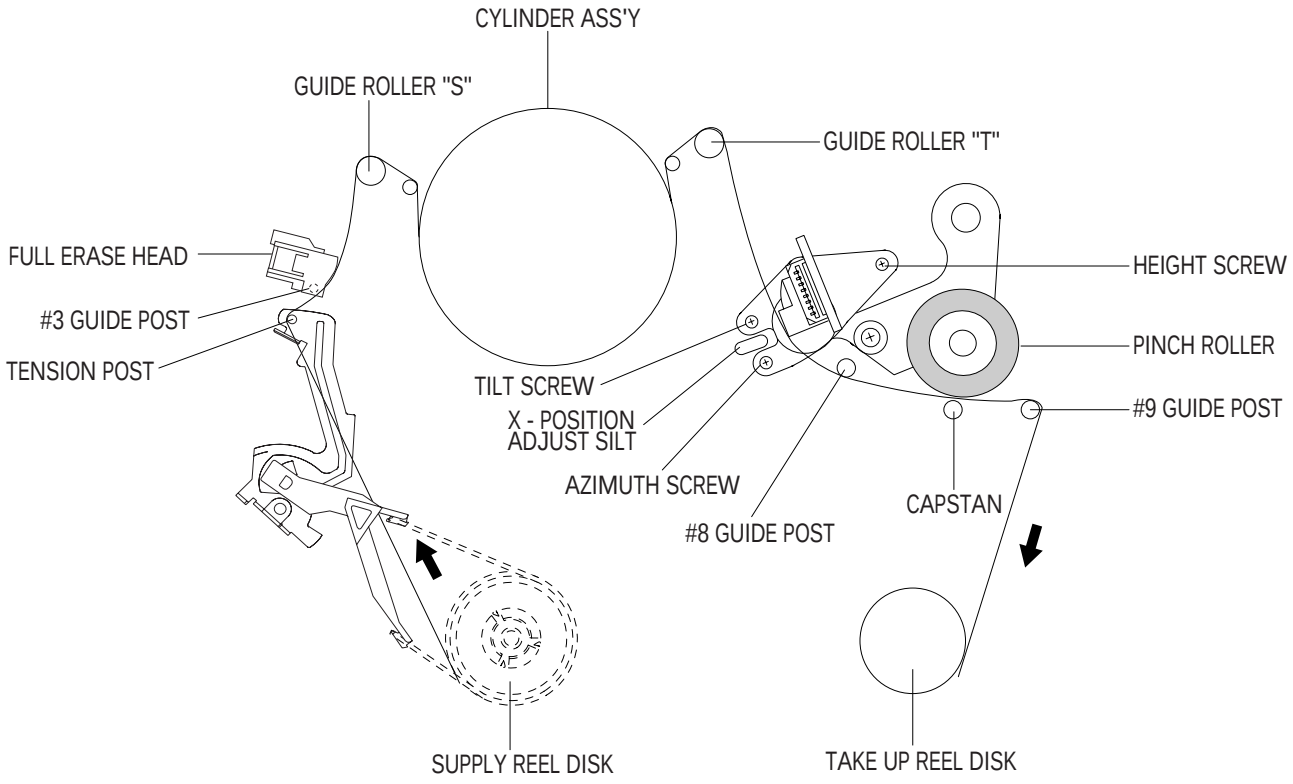


Fig. 2-8 Location of Tape Transport Adjustment

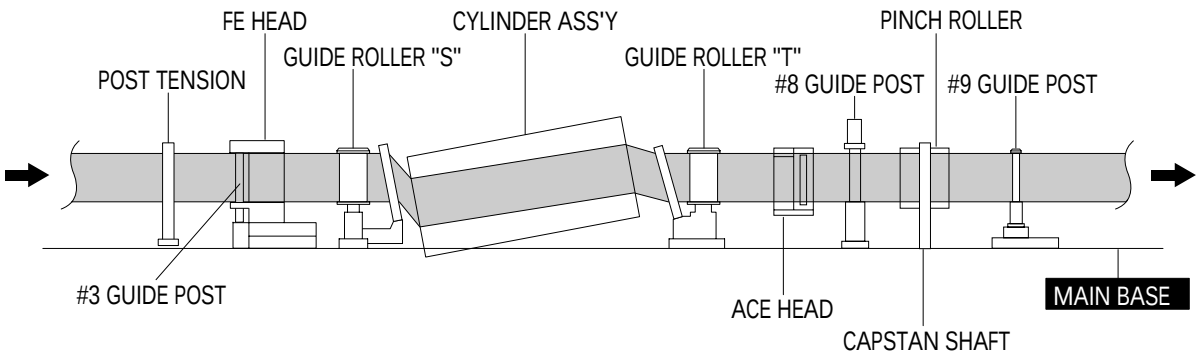


Fig. 2-9 Tape Travel Diagram

2-3-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to procedures for the tape transport system. If there are any changes to the tape path, first run a T-120 tape and make sure excessive tape wrinkle does not occur at the tape guides.

◆ If tape wrinkle is observed at the guide roller S, T, turn the guide roller S, T until wrinkle disappears.
◆ If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the ACE head.

(1) ACE Head Assembly Adjustment

a. ACE HEAD HEIGHT ADJUSTMENT

1) Run the alignment tape (Color bar) in the playback mode.
2) Observe surface of the audio head using a dental mirror.
3) Turn screw (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer to Fig. 2-10 and 2-11)

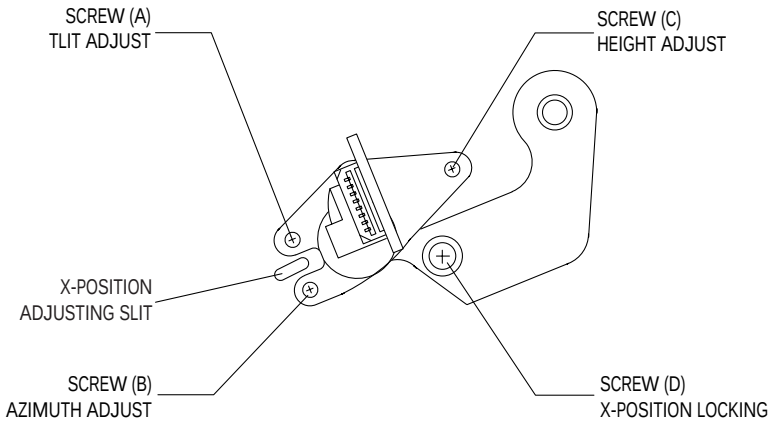


Fig. 2-10 Location of ACE Head Adjustment Screw

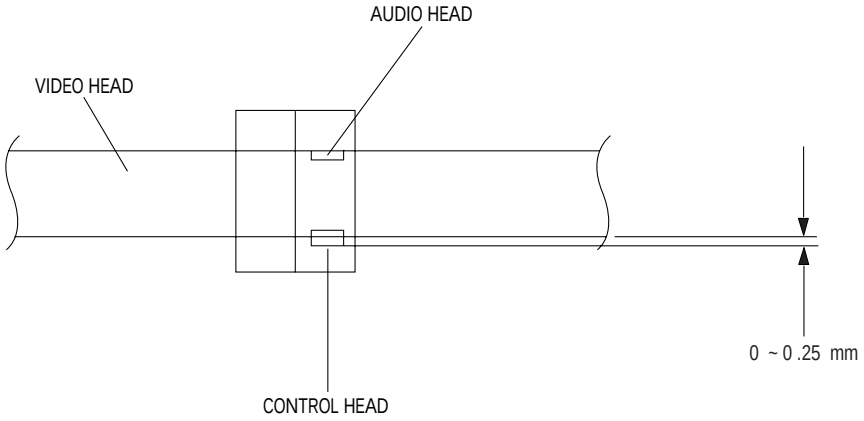


Fig. 2-11 ACE Head Height Adjustment

b. ACE HEAD TILT ADJUSTMENT

1) Playback a blank tape and observe the position of the tape at the lower flange of tape guide.
2) Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 2-12 (B).
3) If a curl or wrinkle of the tape occurs, slightly turn the screw (A) tilt adjust on the ACE head ass'y.
4) Reconfirm the ACE head height.

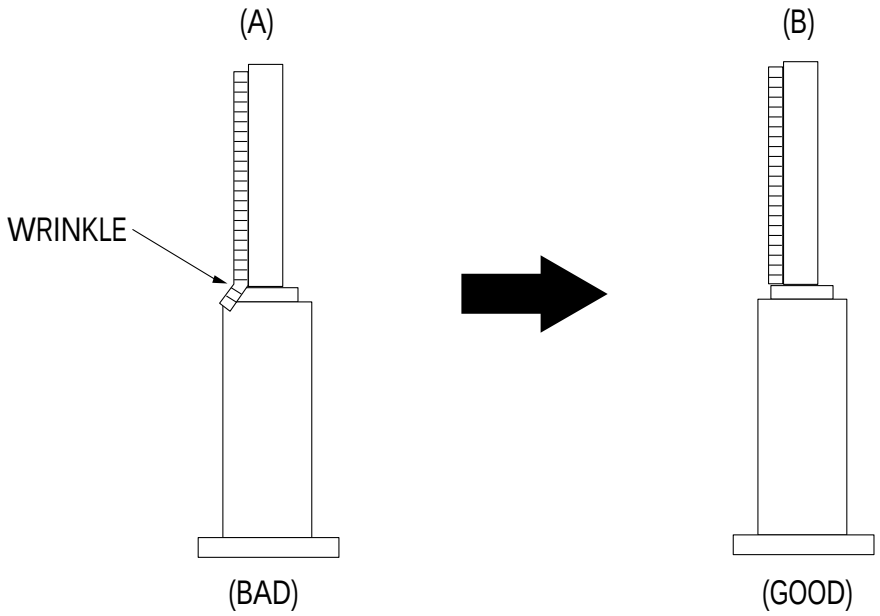


Fig. 2-12 Tape Guide Check

c. AUDIO AZIMUTH ADJUSTMENT

1) Load alignment tape (Mono scope) and playback the 7KHz signal.
2) Connect channel-1 scope probe to audio output.
3) Adjust screw (B) to achieve maximum audio level. (See Fig. 2-10)

d. ACE HEAD POSITION (X-POINT) ADJUSTMENT

1) Playback the alignment tape (Color bar)
2) Intermittently short-circuit the two Test Points on VCR Main PCB. (See Fig. 2-2)
3) Press the “0, 5” remote control buttons, then adjustment is operates automatically. (See Fig. 2-1)
4) Connect the CH-1 probe to “Envelope” the CH-2 probe to “H’D switching pulse” and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.

Test point :	TP2 (Audio Output)
	TP3 (Envelope)
	TP4 (H’D S/W -Trigger)
	TP5 (Control Pulse)

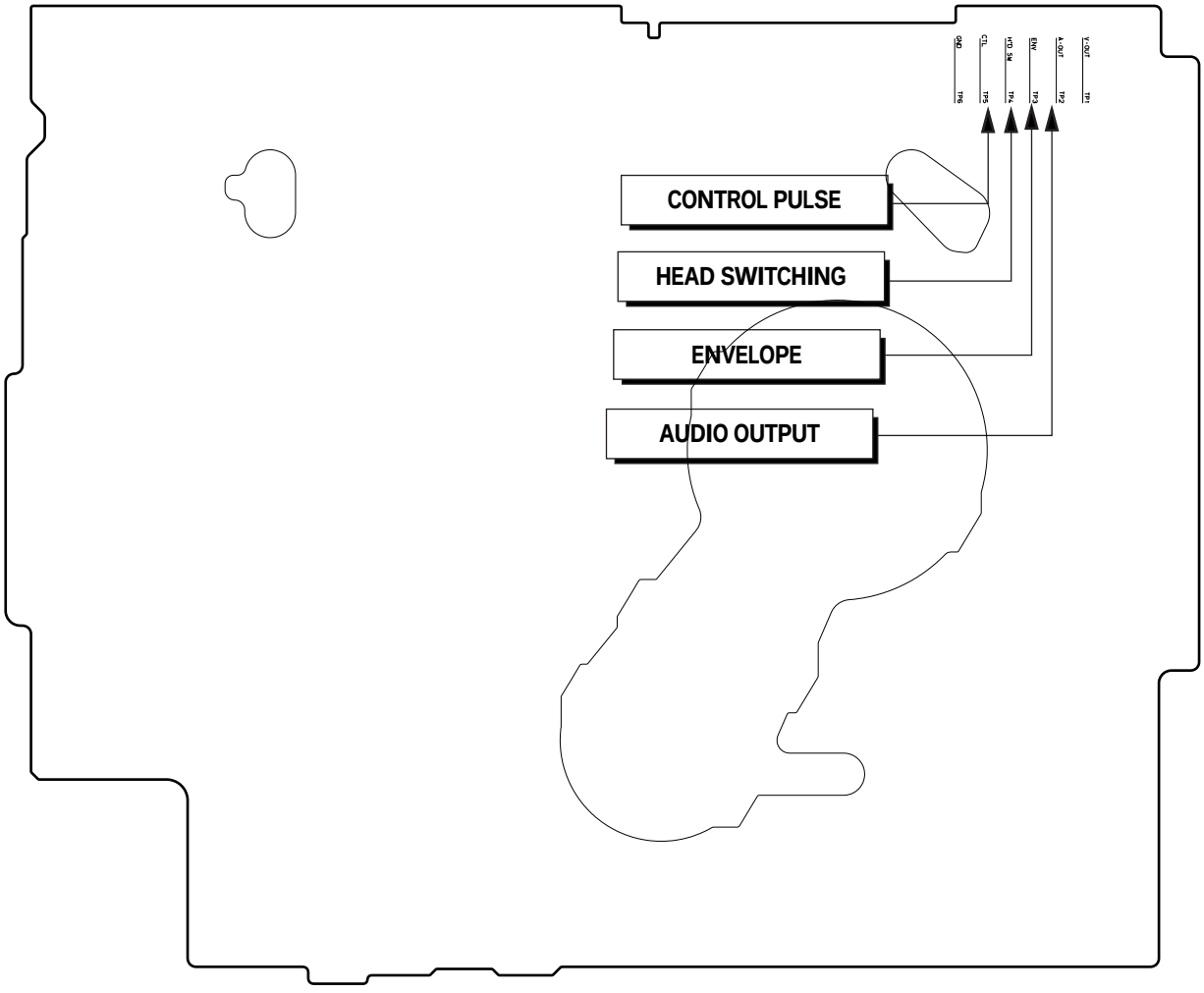


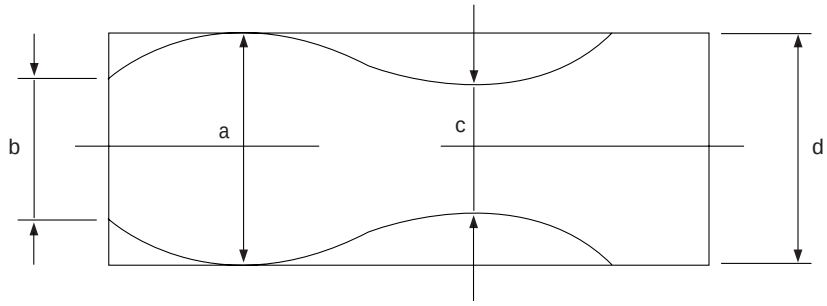
Fig. 2-13 Location of Test point (VCR Main PCB-Top View)

(2) Linearity adjustment (Guide roller S, T adjustment)

1) Playback the Mono Scope alignment tape (SP mode).
2) Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
3) Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 2-14.
   If it does not, adjust as follows :

Note :
a=Maximum output of the video RF envelope.
b=Minimum output of the video RF envelope at the entrance side.
c=Minimum output of the video RF envelope at the center point.
d=Maximum output of the video RF envelope at the exit side.

4) If the section A in Fig. 2-15 does not meet the specification, adjust the guide roller S up or down.
5) If the section B in Fig. 2-15 does not meet the specification, adjust the guide roller T up or down.



a b c d

c,b,d/a ≧ 63%

Fig. 2-14 Envelope Waveform Adjustment

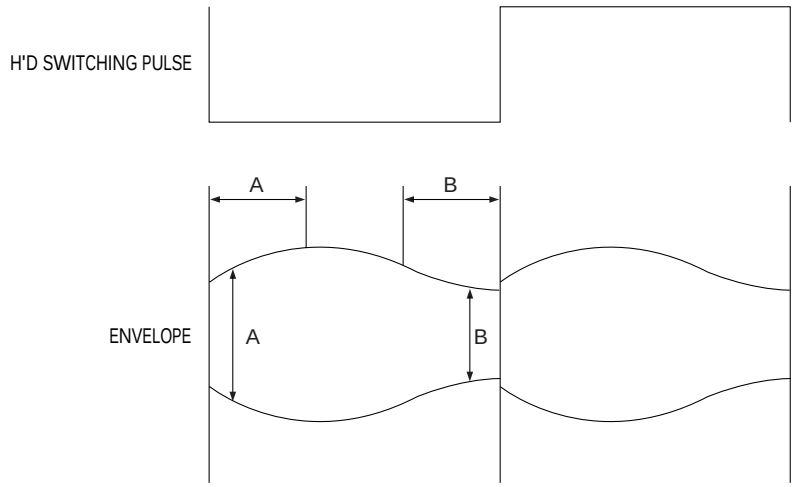


Fig. 2-15 Adjustment Points

6) Play back the Mono Scope alignment tape (SP mode).
7) Connect an oscilloscope CH-1 to the “Envelope” and CH-2 to the “H’D SW Pulse” for triggering.
8) Turn the guide roller heads with a flat head ( ) driver to obtain a flat video RF envelope as shown in Fig. 2-16.

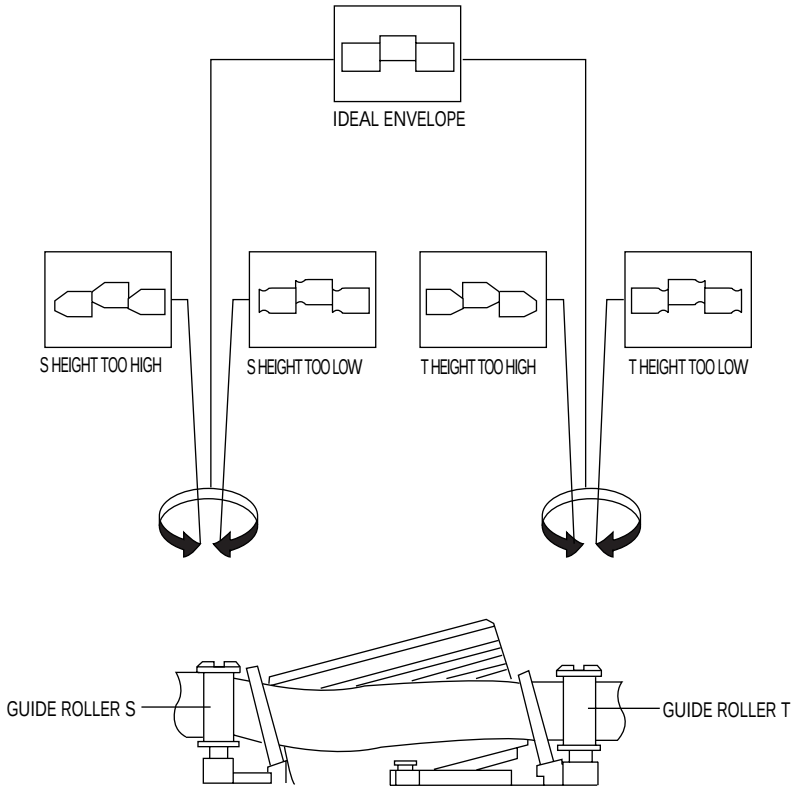


Fig. 2-16 Guide Roller S, T Height Adjustment

(3) Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode : Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 2-17).
If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows :

1) Make sure there is no gap between the supply roller lower flange and the tape.
   If there is a gap, adjust the supply guide roller again.
2) Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 seconds.

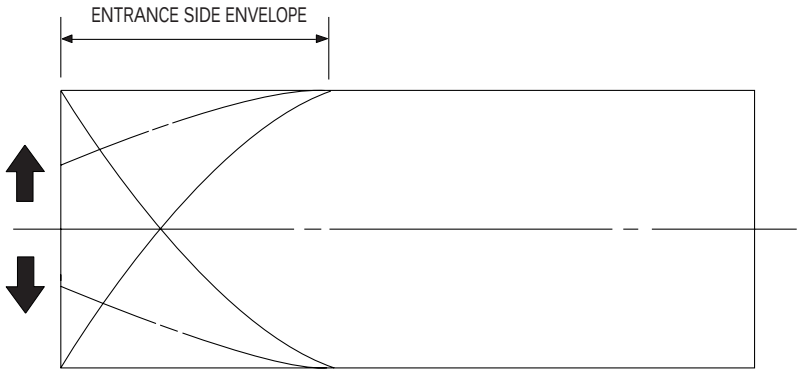


Fig. 2-17 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

(4) Envelope Check

1) Make recordings on T-120 (E-120) and T-160 (E-180) tape.
   Make sure the playback output envelope meets the specification as shown in Fig. 2-18.
2) Play back a self recorded tape (recording made on the unit using with T-120 (E-120).
   The video envelope should meet the specification as shown in Fig. 2-18.
   In SP mode, (A) should equal (B).
   If the head gap is wide, upper cylinder should be checked.

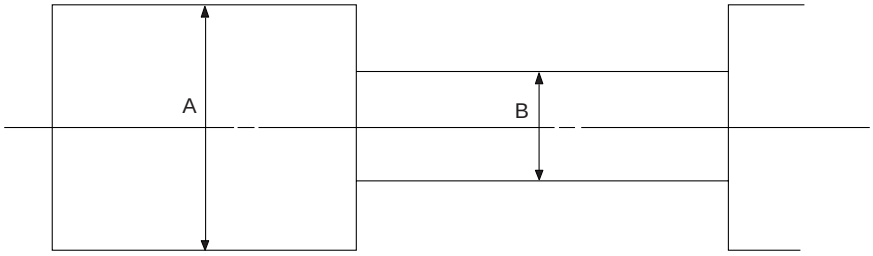


Fig. 2-18 Envelope Input and Output Level

(5) Tape Wrinkle Check

1) Run the T-160 (E-180) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
2) If excessive tape wrinkle is observed, perform the following adjustments in Playback mode :

- ◆ Tape wrinkle at the guide roller S, T section : Linearity adjustment.
- ◆ Tape wrinkle at tape guide flange : ACE head assembly coarse adjustment.

2-3-3 Reel Torque

1) The rotation of the capstan motor causes the holder clutch ass'y to rotate through the belt pulley.
2) The spring wrap PLAY/REV of holder clutch ass'y drives the disk reel S, T through gear idler by rotation of gear center ass'y.
3) Brake is operated by slider cam at FF/REW mode.
4) Transportation of accurate driving force is done by gears. (Gear Center Ass'y)

Note : If the spec. does not meet the followings specifications, replace the holder clutch ass'y and then recheck.

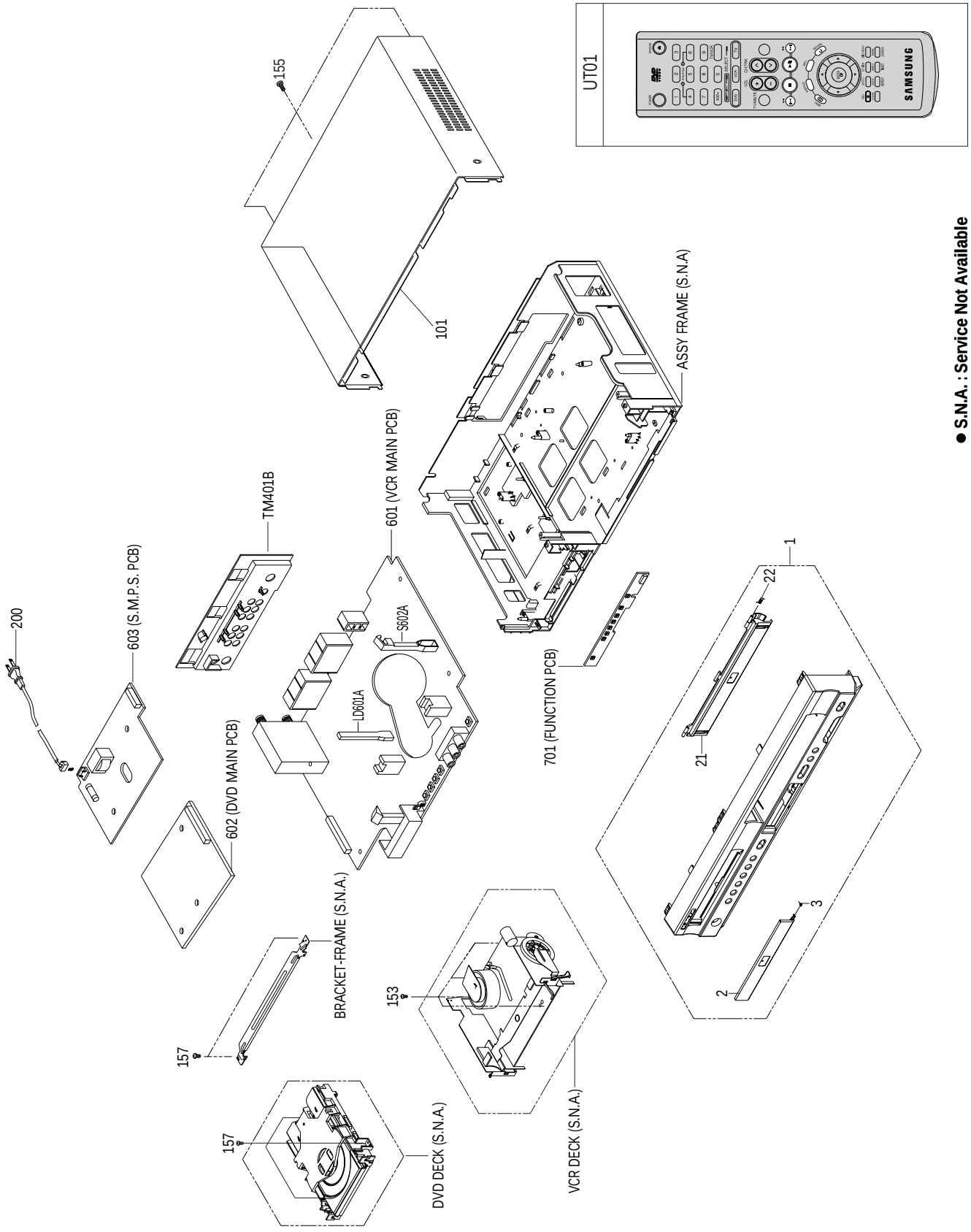
<Table 2-4>

MODE	TORQUE g/cm	GAUGE
PB	42 ± 11	Cassette Torquemeter
RPS	145 ± 30	Cassette Torquemeter

3. Exploded View and Parts List

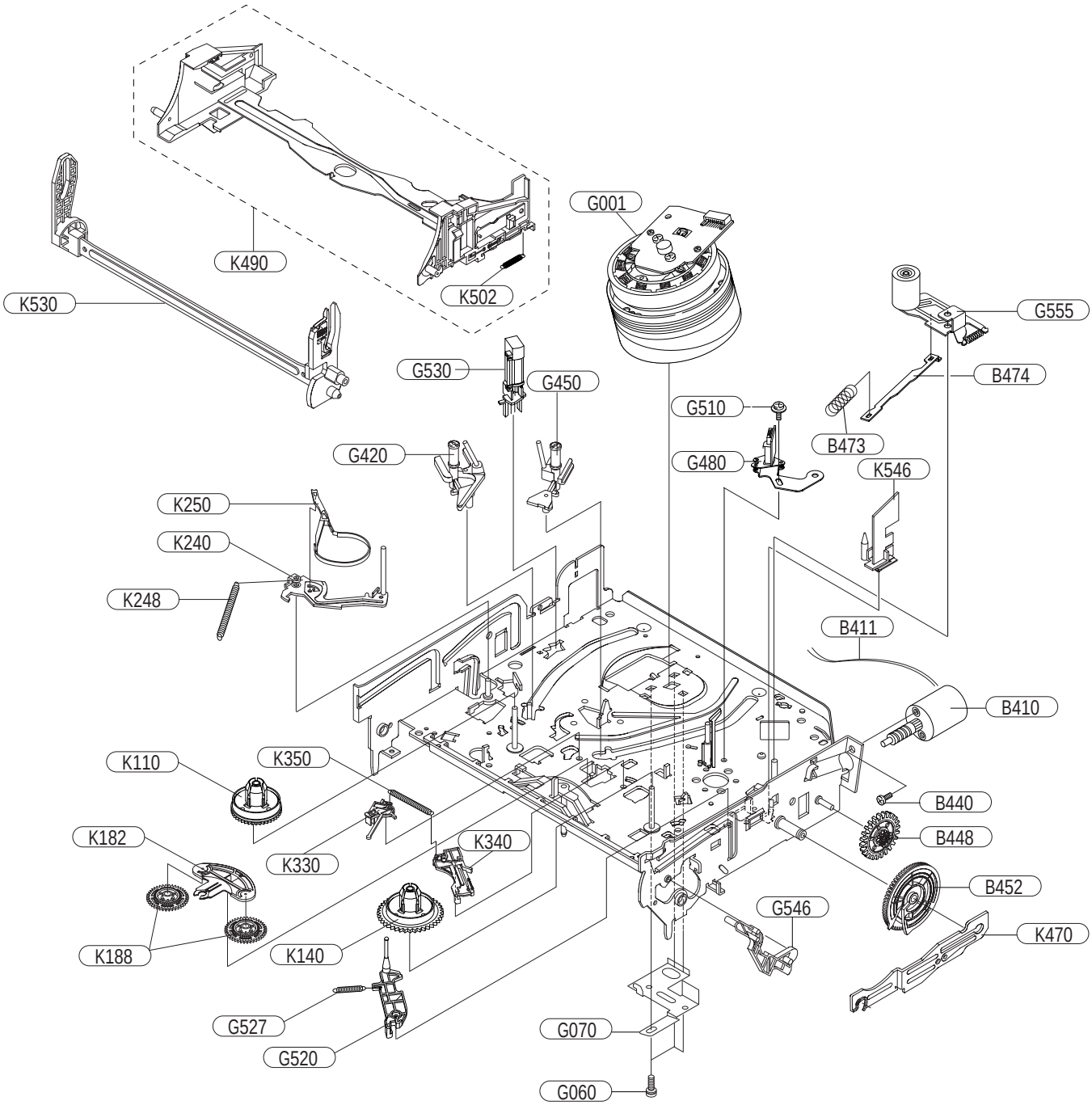
3-1 Cabinet Assembly - - -

3-1 Cabinet Assembly



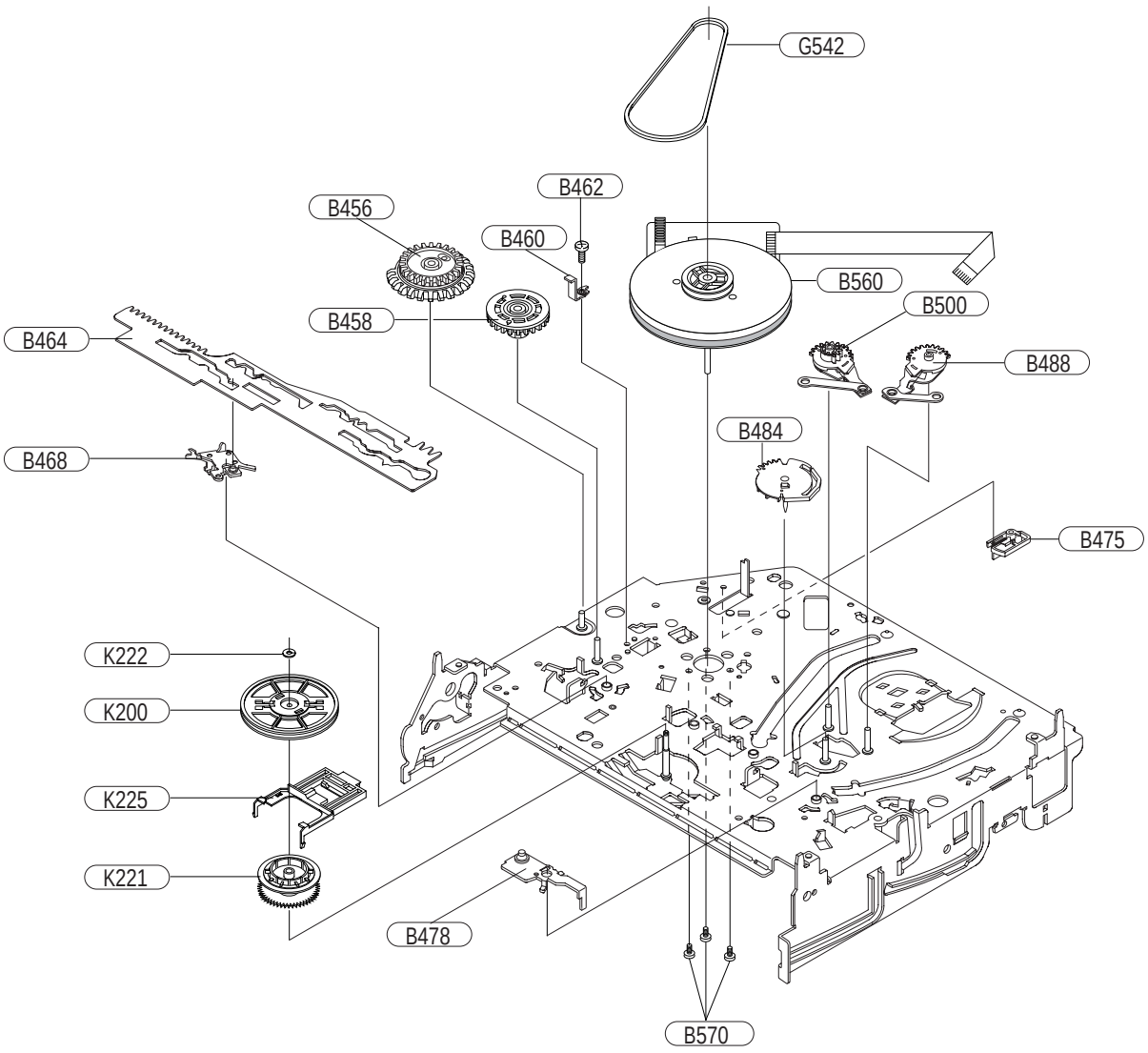
Loc. No	Parts No.	Description ; Specification	Remark
1	AK97-00883B	ASSY-PANEL FRONT;ASS,DVD-V4300/XAX,04-C	DVD-V4300 Only
	AK97-00717L	ASSY-PANEL FRONT;HIPS 94HB,DVD-V4600/XAP	DVD-V4600 Only
2	AK64-00628A	DOOR-TRAY;DVD-V340,ABS,T2,H17.8,W130.8,-	DVD-V4300 Only
	AK64-00557A	DOOR-TRAY;DVD-V4500/XAA,ABS 94HB,T2.0,H1	DVD-V4600 Only
3	AK64-00334A	DOOR-SPRING;DVD-V3500,SWPB,,,,-,,	
21	AK64-00627B	DOOR-CASSETTE;DVD-V4300/XAX,ABS 94,T2.2,	DVD-V4300 Only
	AK64-00556H	DOOR-CASSETTE;DVD-V4600/XAP,ABS,-,-,W26,	DVD-V4600 Only
22	AC61-62032A	SPRING ETC-MASK;SV-C130,SUS,4.4,-,-,-,-,	
101	AK64-00535A	CABINET-TOP;DVD-V4500,PCM,T0.5,W430,L223	
153	AC60-12126A	SCREW-BH;-,-,FE,FZY,BH,-,-,4*12,-,-	
155	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	
157	AC60-10063A	SCREW-TAPTITE;-,-,L12,ZPC3,+,-,M3,-,SWRC	
200	AC39-10014A	CBF POWER CORD;KKP-211,VFF0.75MM,JIS,CON	Other Only
	AC39-00019A	CBF POWER CORD;KKP-419C,H03VVH2-F,VDE/KE	CHILE/PERU Only
601	AK92-00387D	ASSY PCB-MAIN VCR;DVD-V4300/XAX,LED-M	
602	AK92-00341A	ASSY PCB-MAIN DVD;DVD-V4500,VENUS,SEA	
603	AK94-00006B	ASSY PCB-SMPS;DVD-V4300/XAX,FREE	
701	AK94-00011A	ASSY SORT-FUNCTION;DVD-V4700,04-SECCOM43	DVD-V4300 Only
	AK94-00010A	ASSY SORT-FUNCTION;DVD-V4600,04-SECCOM43	DVD-V4600 Only
LD601A	AC61-00340A	HOLDER-LED;X-11,POM(K300),-,-,-,NTR,-	
S602A	AC61-00341A	HOLDER-TR;X-11,POM(K300),-,-,-,NTR,-	
TM401B	AK97-00749B	ASSY-CON BOARD;HIPS 94HB,DVD-V4800,DVD-V	
UT01	AK59-00008A	REMOCON-ASSY;DVD-V3000/XAA,SAMSUNG,-,-,4	

3-2 VCR Mechanical Parts (Top Side)



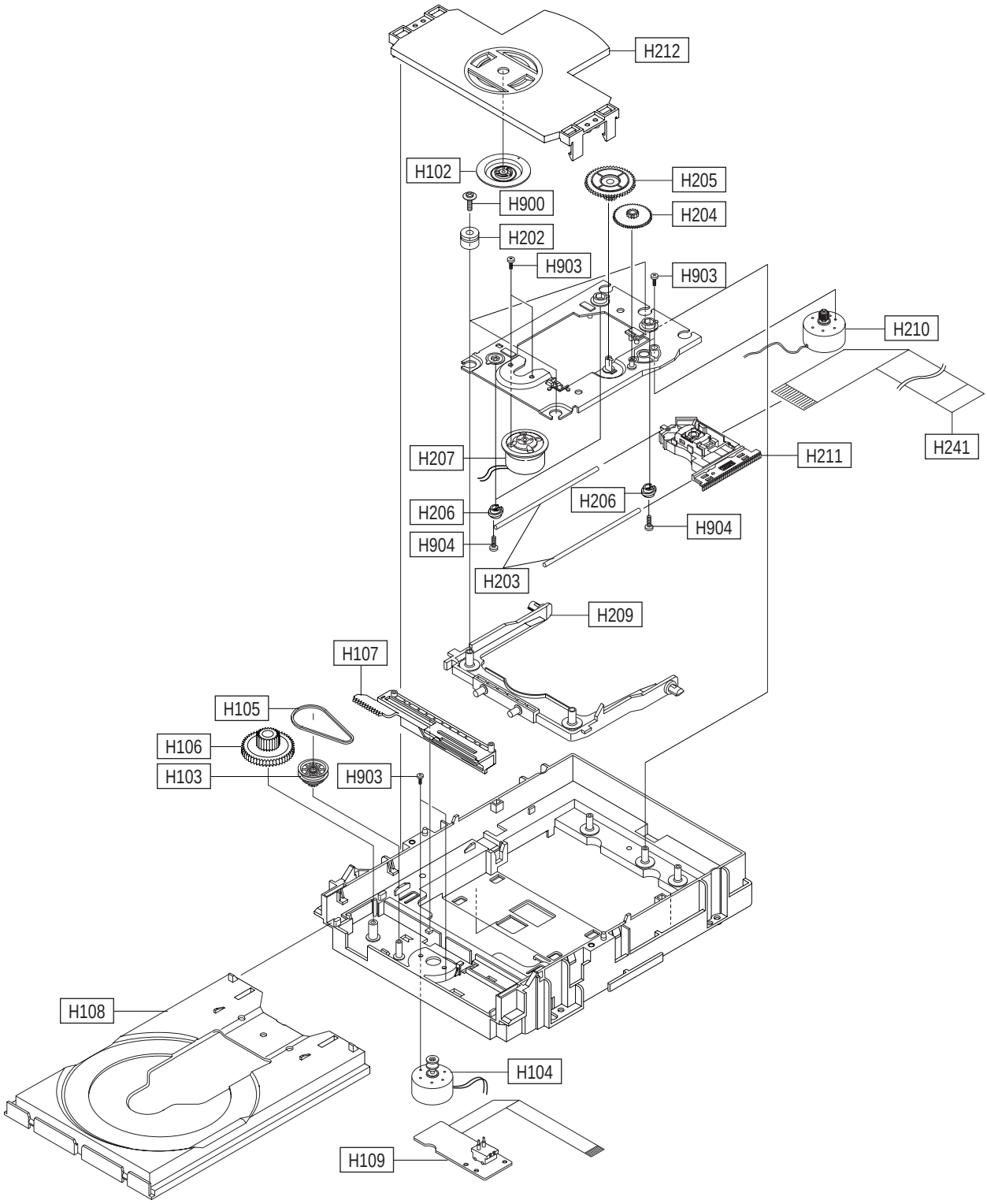
Loc. No	Parts No.	Description ; Specification	Remark
B410	AC97-02354A	ASSY-LOADING MOTOR;ASSY-LOADING MOTOR,	
B411	AC71-00004A	WIRE-LOADING;X-11,PVC+ WIRE,T0.38,0.88,	
B440	AC60-10515A	SCREW-MACHINE;-,-,M3,L3,PH,+,-,-,ZPC,-	
B448	AC66-00008A	GEAR-WORM WHEEL;TS-10,POM,0.8,40,-,NAT,3	
B452	AC66-00011A	GEAR-FL CAM;TS-10,POM,0.8,59,-,BLK,48.48	
B473	AC61-00105A	SPRING ETC-PINCH DRIVE;TS-10,SUS304-WPB,	
B474	AC61-30180A	PLATE-JOINT;X-9,SECC20/20,T0.8,-,-,-,-	
G001	AC97-02191A	ASSY-CYLINDER;6ANJ(Alps Head),CX11-DS,Fo	
G060	6006-001092	SCREW-ASS'Y MACH;WS,PH,+,M3.0,L6.0,ZPC(Y	
G070	AC70-00002A	PLATE-GND DECK;X-11,SPTE,T0.3,-,-,-,-	
G420	AC66-80142A	SLIDER-SUPPLY ASSY;X-9,SUS,-,-,-,SIL,-	
G450	AC66-80141A	SLIDER-TAKE UP ASSY;X-9,SUS,-,-,-,SIL,-	
G480	AC97-01660A	ASSY-HEAD ACE;-,SCORPIO2(TS-10A),VTR-1*2	
G510	6006-001075	SCREW-ASS'Y TAPT;WSP,PH,+,M2.6,L5.0,ZPC(	
G520	AC66-00074A	LEVER-GUIDE(#9);TS-9,PPS,-,-,-,-,BLK,KHA	
G527	AC61-60553A	SPRING ETC-GUIDE 9;X-9,SUS304-WPB,0.25,-	
G530	AC33-00007A	HEAD-FE;-,-,HVFHPOO43A,-,-	
G546	AC66-00005A	LEVER-FL DOOR;TS-10,POM,-,-,-,-,NAT,-	
G555	AC97-02293A	ASSY-UNIT PINCH;SECC+SUS304,TS-10,FOR X-	
G560	AC97-02215A	ASSY-POST #8 GUIDE;SUS303+POM(M90-44)EQ,	
K110	AC66-10267A	REEL-DISK S;X-9,POM,-,-,-,-,-,-	
K140	AC66-10268A	REEL-DISK T;X-9,POM,-,-,-,-,-,-	
K182	AC66-30524A	LEVER-IDLER;-,POM,-,-,-,-,BLK,-	
K188	AC66-00039A	GEAR-IDLE;TS-10,PET K3372,0.5,-,-,NTR,28	
K240	AC66-00035A	LEVER-TENSION ASS'Y;TS-10,SECC E20/20+SU	
K248	AC61-00107A	SPRING ETC-TENSION LEVER;TS-10,SUS304-WP	
K250	AC69-00104A	BAND-BRAKE ASS'Y;TS-10,-,-,-,-,-,-	
K330	AC66-30550A	LEVER-S.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K340	AC66-30549A	LEVER-T.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K350	AC61-00106A	SPRING ETC-BRAKE;TS-10,SUS304-WPB,-,-,-,	
K470	AC66-00020A	SLIDER-FL DRIVE;TS-10,SECC ,T1.0,-,-,SIL	
K490	AC61-00120A	HOLDER-FL CASS. ASS'Y;TS-10,-,-,-,-,-,-	
K502	AC61-60561A	SPRING ETC-FL.LEVER-LR;X-9,SUS304 WPB,OD	
K530	AC66-00034A	LEVER-FL ARM ASS'Y;TS-10,-,-,-,-,-,-,-	
K546	AC61-50658A	GUIDE-CASS. DOOR;X-9,POM,-,-,-,NTR	

3-3 VCR Mechanical Parts (Bottom Side)



Loc. No	Parts No.	Description ; Specification	Remark
B456	AC66-00076A	GEAR-JOINT 1;X-11,POM(K300),-,-,-,BLUE,-	
B458	AC66-00077A	GEAR-JOINT 2;X-11,POM(K300),-,-,-,BLUE,-	
B460	AC61-00338A	BRACKET-GEAR;X-11,SECC,T0.8,W20,L20,NTR,	
B462	AC60-10517A	SCREW-TAP TITE;-,-,M2.6,L5,PH,+,-,-,ZPC,	
B464	AC66-00075A	SLIDER-CAM;X-11,SECC ,T1.2,-,-,SIL,-	
B468	AC66-00017A	LEVER-PINCH DRIVE;TS-10,SECC E20/20,1.0	
B475	AC66-00085A	DAMPER-CAPSTAN;X-11,POM(M90-44),-,-,-,-	
B478	AC66-00016A	LEVER-TENSION DRIVE;TS-10,SECC E20/20,1	
B484	AC66-00078A	GEAR-LOADING DRIVE;X-11,POM(K300),-,-,-,	
B488	AC97-02195A	ASSY-LEVER LOADING S;SECC+POM+SUS,X-11,F	
B500	AC97-02196A	ASSY-LEVER LOADING T;SECC+POM+SUS,X-11,F	
B560	AC81-00004A	MOTOR-CAPSTAN;THRUST END PLAY-0.2,MR-FG	
B570	AC60-10514A	SCREW-CAPSTAN;-,-,M2.6,L6,PH,+,-,-,-,-	
G542	AC66-60051A	BELT-PULLEY;-,5CM-70,2 * 2,-,71.3,-,X-9	
K200	AC61-21012A	HOLDER-CLUTCH ASSY;X-9,ABS,-,-,-,BLK,-	
K221	AC66-20581A	GEAR-CENTER ASSY;X-9,POM,M=O.5,-,-,GRY,-	
K222	AC60-30306A	FASTENER-WASHER SLIT;-,-,ID2.1,OD5.0,T0.	
K225	AC66-00006A	LEVER-UP DOWN;TS-10,POM,-,-,-,-,NAT,-	

3-4 DVD Mechanical Parts



Loc. No	Parts No.	Description ; Specification	Remark
H102	AH66-00111B	CLAMPER-ASSY;DP-5,POM,-,-,-,-,BLK,-	
H103	AK66-00042A	GEAR-PULLEY;DP-15,POM,-,-,-,WHT,-,-,-	
H104	AK97-00608A	ASSY-MOTOR LOAD;-,DP-15,-	
H105	6602-001076	BELT-RECTANGULAR;CR,T1.2,4.3%,1.2X25.1,B	
H106	AK66-00041A	GEAR-TRAY;DP-15,POM,-,-,-,WHT,-,-,-	
H107	AK66-00045A	SLIDER HOUSING;DP-15,POM,-,W17.8,L90,WHT	
H108	AK63-00101B	TRAY-DISC;DP-15,ABS,-,W120,L186.3,-,GRY,	
H109	AK92-00328B	ASSY PCB-DECK;DP-15,COMBO	
H202	AK73-00005B	RUBBER-INSULATOR;DP-15,BUTYL,•'12,HS30,H	
H203	AH61-50327A	SHAFT-P/U;DP-3,SUS,L84.7,OD3,-,-,-	
H204	AK66-00043A	GEAR-FEED A;DP-15,POM,-,-,-,-,-,-,-	
H205	AK66-00044A	GEAR-FEED B;DP-15,POM,-,-,-,-,-,-,-	
H206	AK61-00032A	HOLDER-CAM SKEW;DP-9,POM,-,-,-,BLACK,-	
H207	AK31-00014A	MOTOR SPINDLE;DP-15,3000RPM,-,-,-,-	
H209	AK64-00491A	CHASSIS SUB;DP-15,POM,-,-,-,-,-	
H210	AK31-00005A	MOTOR-FEED ASSY;-,DP-9,-,-,-,-,-,-,-,-,-	
H211	AK97-00638A	ASSY-PICK UP;-,SOH-DT2,TRINO ASSY PICK U	
H212	AK61-00253A	HOLDER-CHUCK;DP-15,POM,-,-,-,-,-	
H241	AK41-00156B	FFC-PU;DP-15,-,FFC,24,T0.3,RIGHT	
H900	6003-001157	SCREW-TAPTITE;PWH,+,B,M2,L6,ZPC(YEL),SWR	
H903	6001-001370	SCREW-MACHINE;CH,+,M1.7,L3.0,ZPC(YEL),SW	
H904	6002-001086	SCREW-TAPPING;PH,+,B,M1.7,L5.0,ZPC(YEL),	

MEMO

4. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
601	**AK92-00387D**	**ASSY PCB-MAIN VCR;DVD-V4300/XAX,LED-M**	
AC14	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
AC21	2203-000315	C-CER,CHIP;0.12NF,5%,50V,C0G,TP,1608	
AC22	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
AC23	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	
AC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
AC25	2203-000315	C-CER,CHIP;0.12NF,5%,50V,C0G,TP,1608	
AC26	2203-000125	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1608,-	
AC27	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
AC9	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
AD1	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AD2	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
AE11	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
AE12	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
AE13	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
AE14	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
AE3	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
AE5	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
AIC4	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/m	
AQ1	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ2	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
AQ4	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ5	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
AQ6	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
AR14	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
AR15	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
AR16	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR17	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR28	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
AR29	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
AR30	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR31	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR41	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	
AR42	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
AR43	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
AR44	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
AR45	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
AR46	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	
AR47	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
AR48	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
AR49	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR50	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
C1P102	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
C1P111	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C1P112	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C1P114	2401-001730	C-AL;10UF,20%,50V,GP,TP,5X11,5	
C1P116	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P117	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C1P118	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
C301	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C302	2203-006243	C-CER,CHIP;0.36NF,10%,50V,X7R,TP,1608	
C303	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C304	2203-000405	C-CER,CHIP;0.18NF,5%,50V,C0G,TP,1608	
C305	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C306	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C307	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C308	2401-000909	C-AL;22uF,20%,16V,GP,TP,5x5,2.5	
C309	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C310	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C311	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C312	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C313	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C314	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C315	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C316	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C317	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C318	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C319	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C320	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C321	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C322	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C323	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C324	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C325	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C326	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,TP,1608	
C327	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C328	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C329	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C330	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	
C331	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	
C332	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	
C333	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	
C334	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C335	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C336	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C337	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C338	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C340	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C342	2401-001169	C-AL;33UF,20%,16V,GP,-,6.3X7,5	
C343	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C344	2203-001587	C-CER,CHIP;18nF,10%,50V,X7R,TP,1608	
C345	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C346	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C347	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
C348	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1608	
C349	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C350	2203-001103	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1608,-	
C351	2203-001211	C-CER,CHIP;8.2nF,10%,50V,X7R,TP,1608,-	
C352	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C353	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C354	2203-002041	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1608	
C355	2301-000110	C-FILM,LEAD-PEF;1.8nF,5%,100V,TP,7x3.0x6	
C356	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C357	2301-000174	C-FILM,LEAD-PEF;15nF,5%,100V,TP,7.2x4.0x	
C358	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C359	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C360	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C371	2203-001071	C-CER,CHIP;0.056NF,5%,50V,C0G,TP,1608	
C372	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C401	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C402	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C403	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C405	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
C406	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C407	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,TP,1608	
C408	2401-001730	C-AL;10UF,20%,50V,GP,TP,5X11,5	
C501	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C502	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C503	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C504	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C505	2401-000909	C-AL;22uF,20%,16V,GP,TP,5x5,2.5	

Loc.No	Part No	Description ; Specification	Remark
C506	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C507	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C508	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C509	2401-000909	C-AL;22uF,20%,16V,GP,TP,5x5,2.5	
C510	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	
C511	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C512	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C513	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C514	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C515	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C516	2401-000909	C-AL;22uF,20%,16V,GP,TP,5x5,2.5	
C517	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	
C518	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C519	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C520	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C521	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C522	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C523	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C524	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C525	2203-001634	C-CER,CHIP;33nF,10%,50V,X7R,TP,1608,1.6m	
C526	2401-001249	C-AL;4.7uF,20%,35V,GP,TP,4x5,2.5	
C527	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C528	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C529	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C530	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C531	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C532	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C533	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C534	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C535	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C536	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C537	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C538	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C539	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C540	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C541	2401-001250	C-AL;4.7uF,20%,35V,GP,TP,4x5,5	
C542	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C543	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C544	2203-001724	C-CER,CHIP;4700NF,+80-20%,16V,Y5V,TP,321	
C545	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C546	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C547	2401-001324	C-AL;0.47UF,20%,50V,GP,BK,3X5,2.5	
C548	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C549	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C550	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C602	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C603	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C604	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C605	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5	
C606	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C607	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C608	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C609	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,TP,1608	
C610	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	
C611	2203-000783	C-CER,CHIP;0.33NF,5%,50V,C0G,TP,1608	
C613	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C614	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C615	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C616	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C617	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C618	2203-000552	C-CER,CHIP;0.02NF,5%,50V,C0G,TP,1608	
C619	2203-000552	C-CER,CHIP;0.02NF,5%,50V,C0G,TP,1608	
C620	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
C621	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,TP,1608	
C622	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C623	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
C624	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C625	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C626	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
C627	2203-001697	C-CER,CHIP;0.082nF,5%,50V,NP0,TP,1608	
C628	2401-001168	C-AL;33uF,20%,16V,GP,TP,6.3x5,2.5mm	
C629	2203-005221	C-CER,CHIP;15nF,10%,50V,X7R,TP,1608,-	
C630	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C631	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C632	2203-001071	C-CER,CHIP;0.056NF,5%,50V,C0G,TP,1608	
C633	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,TP,1608,-	
C634	2203-001071	C-CER,CHIP;0.056NF,5%,50V,C0G,TP,1608	
C635	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C636	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C643	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C644	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C653	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C657	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C6B01	2401-002259	C-AL;0.1F,+80-20%,5.5V,-,TP,12.5x11	
C701	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608,-	
C702	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C703	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C704	2401-000677	C-AL;2200uF,20%,10V,GP,TP,10x20mm,5	
C801	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C802	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C803	2401-000408	C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5	
C804	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
C811	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608,-	
C815	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
C829	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1608,-	
C831	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1608,-	
C832	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
CN101	3711-005565	CONNECTOR-HEADER;NOWALL,24P,1R,2mm,STRAI	
CN102	3711-001246	CONNECTOR-HEADER;NOWALL,12P,1R,2.5mm,STR	
CN301	3708-000391	CONNECTOR-FPC/FFC/PIC;10P,1.25MM,STRAIGH	
CN302	AC37-00028A	CONNECTOR-SOCKET;-,X-11,T9.0,W8.5,PBT NT	
CN303	3708-001165	CONNECTOR-FPC/FFC/PIC;6P,1.25MM,STRAIGHT	
CN303B	3809-001206	CABLE-FLAT;30V,-20to+80C,140mm,6P,1.25mm	
CN604	AC37-00027A	CONNECTOR-HEADER;20045WS,X-11,T8.5,W17.4	
CN701	3711-005312	CONNECTOR-HEADER;3WALL,6P,1R,2MM,STRAIGH	
D1P107	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D1P108	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D601	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D603	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D604	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D605	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D606	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D607	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D701	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D702	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D703	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D704	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D801	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
DOC3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
DOC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
DOIC2	3707-001065	CONNECTOR-OPTICAL;PLUG,GP1FA550TZ,6dB,2.	
DOL1	2901-001125	FILTER-EMI ON BOARD;50V,0.5A,-,220pF,7x2	
DOL2	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
DOR1	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	
DOR2	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	
DOR3	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
DT701	AK07-00013A	LED DISPLAY;BCD-9029A,KAISER,40,9,4,50x2	
IC301	1204-001952	IC-VIDEO PROCESS;LA71207,QFP,80P,14X14MM	
IC501	1204-002222	IC-SIGNAL PROCESSOR;LA72670M-MPB,QFP,80P	
IC601	AC09-00489A	IC MICOM;MN101D10G-AB3,DVD-V4500,100PIN	
IC603	1103-001330	IC-EEPROM;S524A40X41,512x8Bit,DIP,8P,9.2	
IC6B1	AC14-12009W	IC-RESET;PST572K,TO-92,R59-1766 2.5V	

Loc.No	Part No	Description ; Specification	Remark
IC801	1204-001927	IC-AUDIO PROCESSOR;MM1501,SOT,6P,-,PLAST	
JACK1	3722-002115	JACK-PIN;6P(6C),NI,GR/RE/WH/BLK/BLU,ANG	
JK701	3722-001943	JACK-PIN;3P,8.3PI,NI,BLK,-	
JK801	3722-001814	JACK-PIN;6P,3.5MM,NI,BLK,-	
L1P101	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L1P103	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L301	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
L302	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	
L303	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	
L304	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	
L305	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
L306	2702-000120	INDUCTOR-RADIAL;15000uH,5%,6.2x7.4mm	
L307	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L308	2702-000166	INDUCTOR-RADIAL;47uH,5%,6.0x6.4mm	
L501	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	
L502	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	
L601	2702-000108	INDUCTOR-RADIAL;100uH,5%,6.0x6.4mm	
L602	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L603	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L701	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
L803	2701-000002	INDUCTOR-AXIAL;100UH,10%,4298	
LD601	0601-001817	LED-IR;SIDE-VIEW,2.5mm,75mW,6V,940,TR	
PIC3	1203-003216	IC-POSI.FIXED REG.;G9133,TO-220F,4P,10.1	
PT601	0604-001275	PHOTO-INTERRUPTER;-,-,-,SNAP,TR	
PT602	0604-001275	PHOTO-INTERRUPTER;-,-,-,SNAP,TR	
Q1P107	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q1P110	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q302	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q303	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q304	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q305	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q306	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
Q307	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q308	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400mW,T0-9	
Q601	0504-000129	TR-DIGITAL;KSR1104,NPN,200mW,47K/47K,SOT	
Q701	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q702	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q703	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q704	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q705	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q708	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q709	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q710	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q711	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q712	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q713	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q714	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q715	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
Q801	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	
R1P102	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P109	2001-000062	R-CARBON;470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P111	2001-000062	R-CARBON;470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R301	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R302	2007-001056	R-CHIP;6.2Kohm,5%,1/10W,TP,1608	
R303	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	
R304	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	
R305	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R306	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R308	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	
R309	2007-000105	R-CHIP;200Kohm,5%,1/10W,TP,1608	
R310	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
R311	2007-001114	R-CHIP;680Kohm,5%,1/10W,TP,1608	
R312	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	
R313	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R314	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	
R315	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
R316	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R317	2001-000387	R-CARBON;16KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R318	2001-000387	R-CARBON;16KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R319	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R320	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	
R322	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	
R326	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	
R327	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
R328	2007-000127	R-CHIP;9.1Kohm,5%,1/10W,TP,1608	
R329	2007-000133	R-CHIP;330Kohm,5%,1/10W,TP,1608	
R330	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	
R331	2007-000129	R-CHIP;27Kohm,5%,1/10W,TP,1608	
R332	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R333	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R334	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
R335	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
R336	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R338	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
R339	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
R340	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
R341	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R342	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R343	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	
R344	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	
R345	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R346	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R348	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
R3D05	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
R3D06	2001-000800	R-CARBON;5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R401	2007-000121	R-CHIP;820ohm,5%,1/10W,TP,1608	
R402	2007-000121	R-CHIP;820ohm,5%,1/10W,TP,1608	
R501	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R502	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP,1608	
R503	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R504	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
R505	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R506	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	
R507	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	
R508	2007-000130	R-CHIP;39Kohm,5%,1/10W,TP,1608	
R509	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R510	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R512	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP,1608	
R513	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R514	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R515	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R516	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R517	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R518	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R523	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP,1608	
R524	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R525	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R526	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP,1608	
R527	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	
R528	2007-000805	R-CHIP;36Kohm,5%,1/10W,TP,1608	
R601	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
R602	2001-000034	R-CARBON;220OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R603	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
R604	2001-000034	R-CARBON;220OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R605	2001-000111	R-CARBON;150OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R606	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2001-000633	R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R609	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R611	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R613	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R614	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R615	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
R616	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R617	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	
R618	2007-000098	R-CHIP;56Kohm,5%,1/10W,TP,1608	
R619	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R621	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	
R622	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	
R623	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R624	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R630	2007-000098	R-CHIP;56Kohm,5%,1/10W,TP,1608	
R631	2007-000098	R-CHIP;56Kohm,5%,1/10W,TP,1608	
R632	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
R633	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	
R634	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
R638	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	
R639	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	
R641	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R643	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R644	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R645	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R646	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
R647	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	
R648	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	
R649	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R650	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R651	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
R652	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R653	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R656	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R660	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	
R661	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R662	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R664	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R666	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R667	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R668	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R669	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
R670	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
R671	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
R677	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R679	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R680	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R690	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R691	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R692	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R694	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R6A01	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R6B01	2001-000568	R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R701	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R703	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R705	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R707	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
R710	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R711	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
R712	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R713	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R714	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R715	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R716	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R717	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R720	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R722	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R723	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R724	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R728	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R729	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R730	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R731	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R732	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R733	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R734	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R735	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R804	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	
R806	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
R810	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
R811	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
R812	2001-000025	R-CARBON;75OHM,5%,1/4W,AA,TP,2.4X6.4MM	
RM702	0609-001198	MODULE REMOCON;VERTICAL,-,TR	
S602	0603-001134	PHOTO TR;-,30V,4V,50mA,75mW,TRAY	
SJACK	3722-001375	JACK-DIN;4P,-,NI,BLK,-	
SW602	AC34-00006A	SWITCH-REC;-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-	
SW603	AC34-00005A	SWITCH MODE;-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,	
SW704	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	
SW705	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	
SW706	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	
SW707	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	
SW709	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	
TM401	AC40-00025B	TM BLOCK;VH015AP,NTSC-M,181CH,-,25DB,5V	
VC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
VC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
VC13	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
VC14	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
VC15	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
VC16	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
VC17	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC18	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
VC50	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
VC6	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
VC7	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC8	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
VC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
VE1	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
VE2	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
VE4	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
VE5	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
VE6	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
VE7	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
VIC1	1204-001978	IC-VIDEO PROCESS;LA73054,-,36P,-,SSOP,7V	
VJ5	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
VR29	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
VR30	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
VR31	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
VR32	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
VR33	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
VR34	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
XT301	2801-003399	CRYSTAL-UNIT;3.579545MHz,15ppm,28-AAA,S,	
XT601	2801-001384	CRYSTAL-UNIT;14.31818MHz,30ppm,28-AAA,16	
XT602	2801-003318	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAP,12.5	
ZD1P05	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57-9.01V,500MW,DO	
ZD1P06	0403-000717	DIODE-ZENER;MTZJ5.1B,4.94-5.2V,500MW,DO-	
ZD401	0403-000390	DIODE-ZENER;UZP33B,31.4-34.6V,1000MW,DO-	

Loc.No	Part No	Description ; Specification	Remark
602	**AK92-00341A**	**ASSY PCB-MAIN DVD;DVD-V4500,VENUS,SEA**	
AC18	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
AC19	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
AC20	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
AE10	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
AE8	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
AIC2	1002-001294	IC-D/A CONVERTER;PCM1742KE,24BIT,TSSOP,1	
AL1	3301-001419	BEAD-SMD;-,220,-,500,TP;-,0.3	
AR101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
AR102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
AR103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
AR104	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
CN4	3710-002050	CONNECTOR-SOCKET;12P,1R,2mm,STRAIGHT,SN,	
CNC1	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
CNC2	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
CNC3	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
CNC4	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
CNC5	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
CNR1	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
CNR2	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
CNR3	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
CNR4	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
CNR5	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
CNR6	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
DCN1	3708-001696	CONNECTOR-FPC/FFC/PIC;24P,1MM,STRAIGHT,S	
DCN2	3708-001266	CONNECTOR-FPC/FFC/PIC;11P,1MM,STRAIGHT,S	
DOC1	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
DOC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
DOR3	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
DQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
DQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
DQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
DR1	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
DR2	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
DR3	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
DR4	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
DR5	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
DR6	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
FC1	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
FC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
FC11	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
FC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
FC2	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
FC3	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
FC4	2203-000669	C-CER,CHIP;27nF,10%,25V,X7R,TP,1608,-	
FC5	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,TP,1608,-	
FC6	2203-000669	C-CER,CHIP;27nF,10%,25V,X7R,TP,1608,-	
FC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
FC9	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
FE1	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
FE2	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
FE3	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
FIC1	1003-001661	IC-MOTOR DRIVER;FAN8004,HQFP,48P,13.2x13	
FL1	3301-001419	BEAD-SMD;-,220,-,500,TP;-,0.3	
FR1	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	
FR10	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
FR11	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	
FR12	2007-000329	R-CHIP;11Kohm,5%,1/10W,TP,1608	
FR13	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	
FR14	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
FR15	2007-000655	R-CHIP;27Kohm,5%,1/10W,TP,1608	
FR16	2007-007277	R-CHIP;392ohm,1%,1/10W,TP,1608	
FR17	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
FR18	2007-000127	R-CHIP;9.1Kohm,5%,1/10W,TP,1608	
FR19	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
FR2	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
FR20	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
FR21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
FR22	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
FR23	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR24	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR25	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR26	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
FR28	2007-007277	R-CHIP;392ohm,1%,1/10W,TP,1608	
FR3	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	
FR30	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
FR31	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	
FR32	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
FR33	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	
FR34	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	
FR35	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
FR36	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	
FR37	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
FR39	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	
FR4	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
FR41	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	
FR5	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR7	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR8	2007-000086	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	
FR9	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
JJ1	3301-001419	BEAD-SMD;-,220,-,500,TP;-,0.3	
JJ2	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JJ3	3301-001419	BEAD-SMD;-,220,-,500,TP;-,0.3	
JJ4	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
PC1	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
PC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
PC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
PC6	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
PC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
PE1	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE3	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE4	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PE6	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PIC1	1203-002779	IC-POSI.FIXED REG.;G952T63U,SOT-223,3P,6	
PL1	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
PL3	2703-000398	INDUCTOR-SMD;10uH,10%,3225	
PL4	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
PR1	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC13	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC14	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC15	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC16	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC17	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC18	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1608	
RC19	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
RC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC20	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
RC21	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
RC22	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,TP,1608	
RC23	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
RC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC25	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
RC28	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC29	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC30	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC31	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC32	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC33	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC34	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608,-	

Loc.No	Part No	Description ; Specification	Remark
RC35	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
RC36	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC37	2203-001662	C-CER,CHIP;5.6NF,10%,50V,X7R,TP,1608	
RC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RC6	2203-001103	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1608,-	
RC7	2203-001634	C-CER,CHIP;33nF,10%,50V,X7R,TP,1608,1.6m	
RC8	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,-,1608	
RC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
RD1	0407-000116	DIODE-ARRAY;DAP202K,80V,100mA,CK2-3,SOT-	
RE1	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
RE2	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
RE5	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
RE6	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
RIC1	AK13-00005B	IC ASIC;SP3723CA0PM,EXINO2,64,5,+135,Q	
RL1	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
RL2	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
RL3	2703-000398	INDUCTOR-SMD;10uH,10%,3225	
RQ1	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RQ2	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-	
RR1	2007-000312	R-CHIP;10ohm,5%,1/4W,TP,3216	
RR10	2007-000234	R-CHIP;1.3Kohm,5%,1/10W,TP,1608	
RR11	2007-000234	R-CHIP;1.3Kohm,5%,1/10W,TP,1608	
RR12	2007-000234	R-CHIP;1.3Kohm,5%,1/10W,TP,1608	
RR13	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
RR14	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
RR15	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
RR16	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	
RR17	2007-007549	R-CHIP;4.99Kohm,1%,1/10W,TP,1608	
RR18	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	
RR2	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
RR3	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	
RR4	2007-000312	R-CHIP;10ohm,5%,1/4W,TP,3216	
RR5	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
RR7	2007-000381	R-CHIP;13Kohm,5%,1/10W,TP,1608	
ZC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC13	2203-000280	C-CER,CHIP;0.01NF,0.5PF,50V,C0G,TP,1608	
ZC14	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC15	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC16	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC17	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC18	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
ZC19	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
ZC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC20	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
ZC21	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
ZC22	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC23	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC25	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC26	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC27	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC28	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC29	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC30	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC31	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC32	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC33	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC34	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC35	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC36	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC37	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	
ZC39	2203-000681	C-CER,CHIP;0.027NF,5%,50V,C0G,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
ZC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC40	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC41	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC42	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC43	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC44	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC45	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC46	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC47	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC48	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC49	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
ZC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC50	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC51	2203-000783	C-CER,CHIP;0.33NF,5%,50V,C0G,TP,1608	
ZC6	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC7	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
ZE1	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
ZE2	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
ZE3	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
ZE4	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
ZE5	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
ZE6	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
ZIC1	1204-002195	IC-DECODER;ZR36762,PQFP,208P,28x28mm,PLA	
ZIC2	1105-001305	IC-DRAM;4S641632,1MX16X4BIT,TSOP,54P,4	
ZIC3	1107-001369	IC-FLASH MEMORY;29LV800,1Mx8/512Kx16,TSO	
ZIC4	0801-002701	IC-CMOS LOGIC;74VHCT125A,BUFFER,TSSOP,14	
ZL1	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL11	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZL12	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZL13	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL14	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL2	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL3	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL4	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL5	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZL6	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
ZL8	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
ZL9	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
ZR10	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR11	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR12	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR13	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR14	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR15	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR16	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZR17	2007-007277	R-CHIP;392ohm,1%,1/10W,TP,1608	
ZR18	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	
ZR19	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	
ZR2	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR20	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	
ZR21	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	
ZR22	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZR23	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	
ZR24	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	
ZR25	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
ZR26	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
ZR27	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
ZR28	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
ZR29	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR30	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
ZR31	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	
ZR35	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
ZR36	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
ZR46	3301-001419	BEAD-SMD;-,220,-,500,TP,-,0.3	

Loc.No	Part No	Description ; Specification	Remark
ZR47	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
ZR48	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
ZR54	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	
ZR55	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR56	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR57	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR58	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR59	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
ZR7	3301-001309	BEAD-SMD;47ohm,1.6x0.8x0.8mm,500mA,TP,-	
ZR8	3301-001309	BEAD-SMD;47ohm,1.6x0.8x0.8mm,500mA,TP,-	
ZR9	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	
ZY1	2801-003554	CRYSTAL-UNIT;27MHz,10ppm,28-AAM,12pF,40o	
603	**AK94-00006B**	**ASSY PCB-SMPS;DVD-V4300/XAX,FREE**	
BD1S01	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
BD1SS3	AC27-92001M	COIL-INDUCTOR;RH3.5X6.5RS,BEAD(RADIAL),-	
C1P102	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
C1P103	2401-001730	C-AL;10UF,20%,50V,GP,TP,5X11,5	
C1P104	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P107	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
C1P108	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P110	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1SD02	2305-001021	C-FILM,LEAD-PEF;100nF,20%,275V,TP,17.5x7	⚠
C1SD11	2401-003303	C-AL;82uF,20%,400V,GP,BK,22X30,10	
C1SD12	2305-001029	C-FILM,LEAD-PEF;10nF,10%,630V,TP,12x9x12	
C1SD13	2305-001029	C-FILM,LEAD-PEF;10nF,10%,630V,TP,12x9x12	
C1SD16	2201-000012	C-CERAMIC,DISC;0.22NF,10%,1KV,Y5P,TP,6.3	
C1SF01	2201-002044	C-CERAMIC,DISC;0.1NF,10%,400V,Y5P,TP,8.5	⚠
C1SF02	2401-002608	C-AL;33uF,20%,35V,GP,TP,5x11,5	
C1SF04	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1SS01	2305-001021	C-FILM,LEAD-PEF;100nF,20%,275V,TP,17.5x7	⚠
C1SS03	2201-000828	C-CERAMIC,DISC;3.3NF,20%,400V,Y5U,TP,15X	⚠
C1SS04	2201-000828	C-CERAMIC,DISC;3.3NF,20%,400V,Y5U,TP,15X	
C1SS05	2201-002044	C-CERAMIC,DISC;0.1NF,10%,400V,Y5P,TP,8.5	⚠
C1SS06	2401-002608	C-AL;33uF,20%,35V,GP,TP,5x11,5	
C1SS07	2401-003480	C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5	
C1SS08	2401-001479	C-AL;470UF,20%,10V,GP,TP,6.3*11MM,-	
C1SS10	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
C1SS11	2301-000129	C-FILM,LEAD-PEF;100nF,5%,50V,TP,10X9X4.3	
C1SS12	2401-000385	C-AL;10uF,20%,100V,GP,TP,6.3x11,5	
C1SS15	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS16	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS17	2401-000804	C-AL;220uF,20%,16V,GP,TP,8x9mm,5	
C1SS18	2401-003480	C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5	
CN103	3710-002036	CONNECTOR-SOCKET;12P,1R,2.5mm,STRAIGHT,S	
CN1SS1	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	
D1P103	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D1P105	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D1SF01	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
D1SF02	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-204AC,TP	
D1SS01	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS02	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS03	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS04	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS05	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,-,TP	
D1SS07	0404-001235	DIODE-SCHOTTKY;SHK65-45R,60V,3000mA,DO-2	
D1SS08	0404-001235	DIODE-SCHOTTKY;SHK65-45R,60V,3000mA,DO-2	
D1SS09	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-204AC,TP	
D1SS11	0402-000012	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
D1SS12	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-204AC,TP	
D1SS13	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,-,TP	
F1SS01	3601-001122	FUSE-CARTRIDGE;250V,1.6A,FAST-ACTING,GLA	⚠
IC1SF1	1203-002805	IC-PWM CONTROLLER;ICE2BS01,PDIP,8P,9.52X	
IC1SS1	0604-001028	PHOTO-COUPLER;TR,50-600%,250mW,DIP-4,ST	
IC1SS2	AC14-12006D	IC;KA431Z,TO-92,TAPING	
L1P102	3301-000297	BEAD-AXIAL;25ohm,3.6x1.2x5.7mm,,TP,,,	

Loc.No	Part No	Description ; Specification	Remark
L1SS01	AC27-92001Q	COIL-LINE FILTER;-,25MH,-,-,-,-,-,3.2o	⚠
L1SS02	AC27-12001N	COIL CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS03	AC27-12001N	COIL CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS04	AC27-12001N	COIL CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PT1SD1	AC26-00012A	TRANS SWITCHING;EER3530,DIVA(EUROPE),-,2	
Q1P101	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q1P102	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T	
Q1P103	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q1P104	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q1P105	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q1P106	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1000MW,TO	
Q1SS01	0505-001729	FET-SILICON;SPA04N60C3,N,600V,4.5A,0.85O	
R1P101	2001-000855	R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P103	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1P104	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P108	2001-000062	R-CARBON;470OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R1SD06	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SD11	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6.5X18M	
R1SD13	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6.5X18M	
R1SD14	2001-000598	R-CARBON;3.3OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SF05	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SF06	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1SF07	2003-000105	R-METAL OXIDE;0.33ohm,5%,2W,AD,TP,6x16mm	
R1SQ11	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SR01	2001-000546	R-CARBON;270KOHM,5%,1/4W,AA,TP,2.4X6.4M	
R1SR02	2001-000546	R-CARBON;270KOHM,5%,1/4W,AA,TP,2.4X6.4M	
R1SR03	2001-000546	R-CARBON;270KOHM,5%,1/4W,AA,TP,2.4X6.4M	
R1SS01	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,TP,7.5x11x20.	
R1SS03	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS04	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R1SS05	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
R1SS06	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS08	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SS11	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
VA1SS1	1405-001026	VARISTOR;470V,600A,9x7mm,TP	⚠
ZD1P02	0403-001211	DIODE-ZENER;MTZJ12B,11.8-12.3V,500MW,DO-	
ZD1P04	0403-000717	DIODE-ZENER;MTZJ5.1B,4.94-5.2V,500MW,DO-	
ZD1SS2	0403-001318	DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500MW,DO	
ZD1SS3	0403-000713	DIODE-ZENER;MTZJ20B,18.63-17.7V,500MW,DO	
701	**AK94-00011A**	**ASSY SORT-FUNCTION;DVD-V4700,04-SECCOM43**	**DVD-V4300 Only**
	AK94-00010A	**ASSY SORT-FUNCTION;DVD-V4600,04-SECCOM43**	**DVD-V4600 Only**
CN702	3710-001918	CONNECTOR-SOCKET;6P,1R,2MM,ANGLE,SN	
SW711	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW712	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW713	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW714	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW715	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW716	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW717	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW718	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4600 Only
SW731	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW732	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW733	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW734	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW735	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW736	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW737	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only
SW738	3404-001182	SWITCH-TACT;DC12V,50MA,100GF,6.0X6.0X5.0	DVD-V4300 Only

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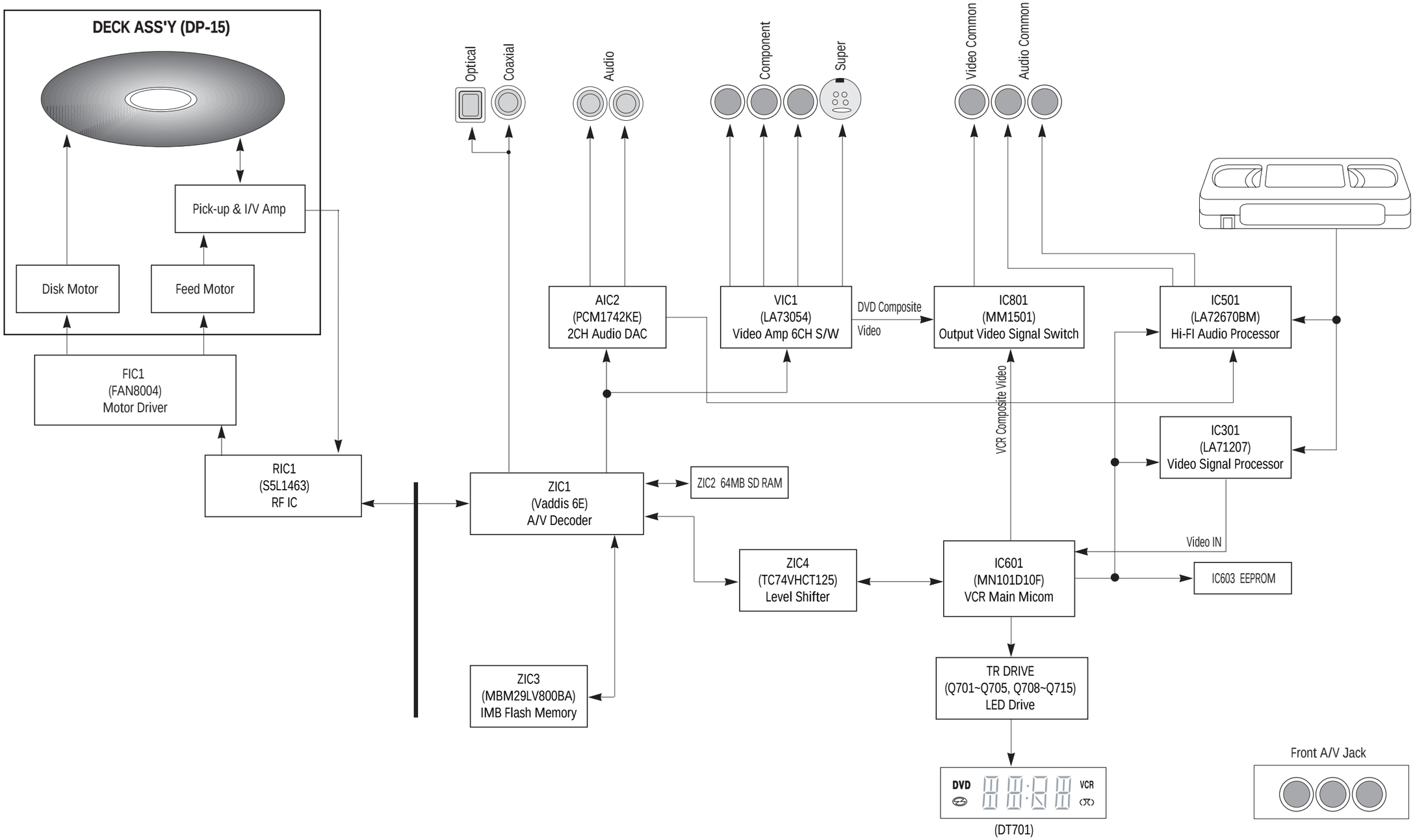
5. Block Diagram



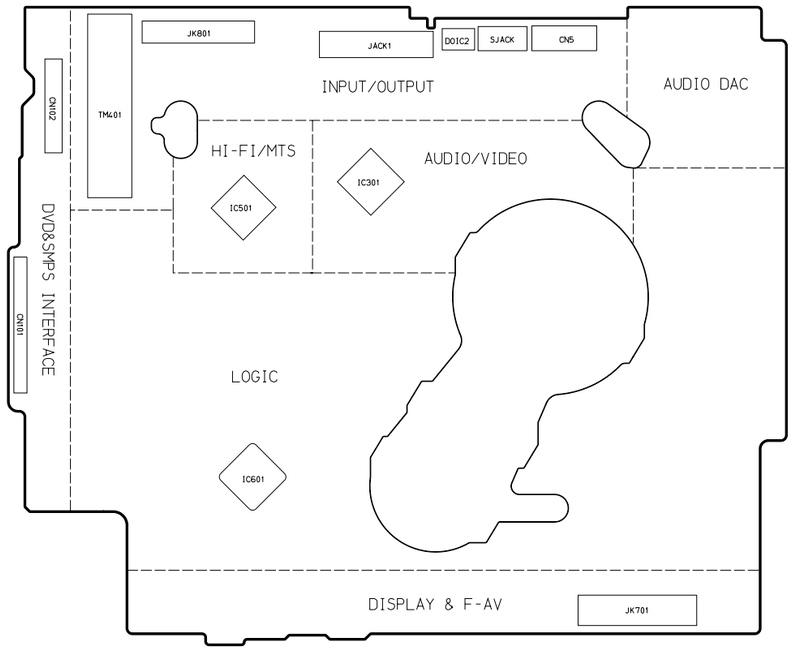
MEMO

6. Schematic Diagrams

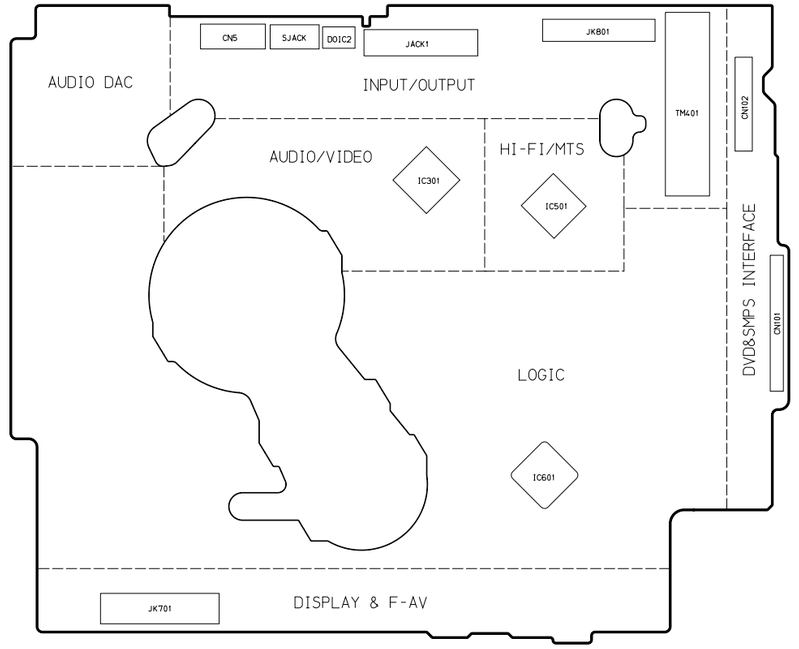
◆ Block Identification of Main PCB - - -

◆ Block Identification of Main PCB

VCR MAIN PCB

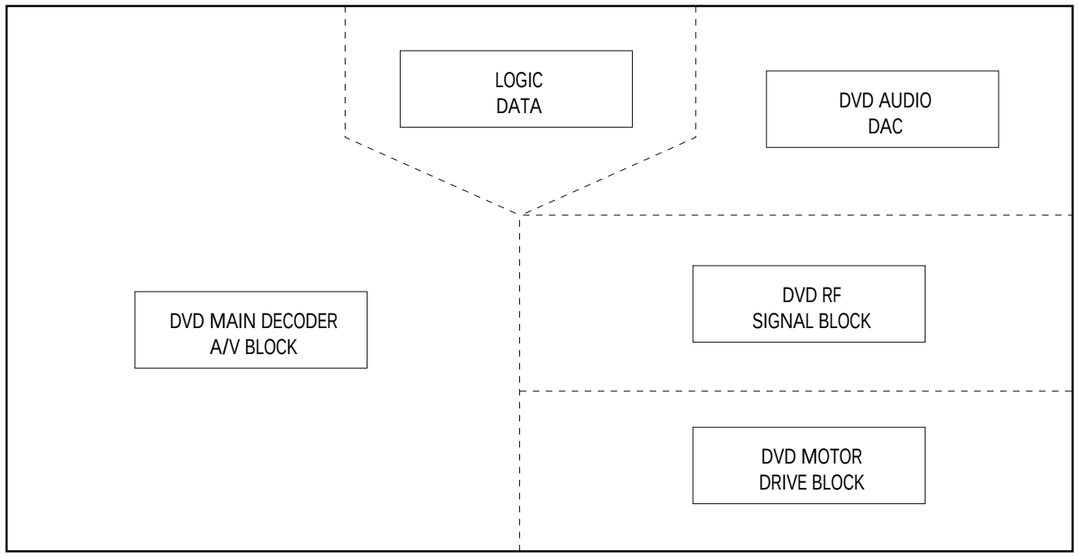


<Component Side>



<Conductor Side>

DVD MAIN PCB



<Component Side>

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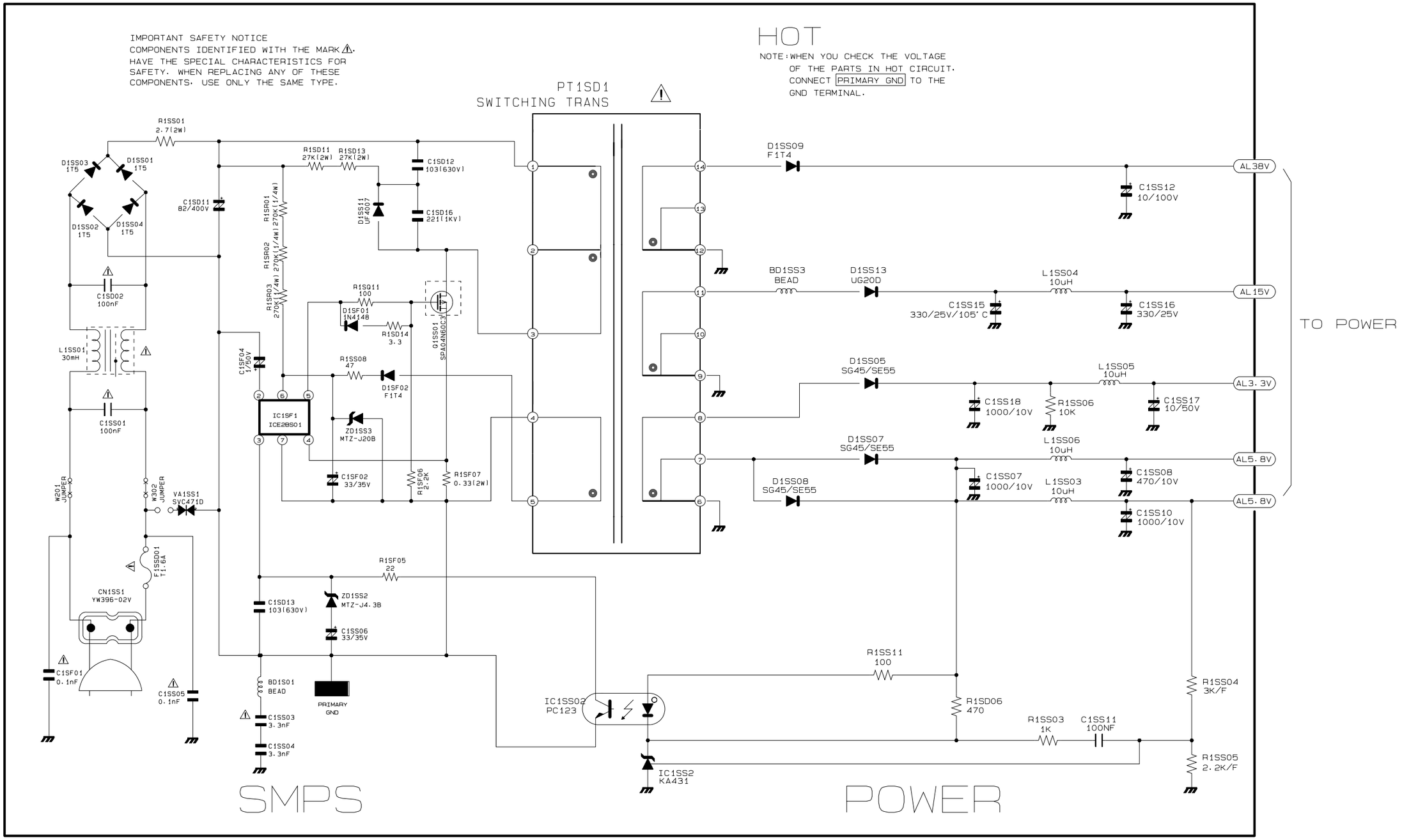
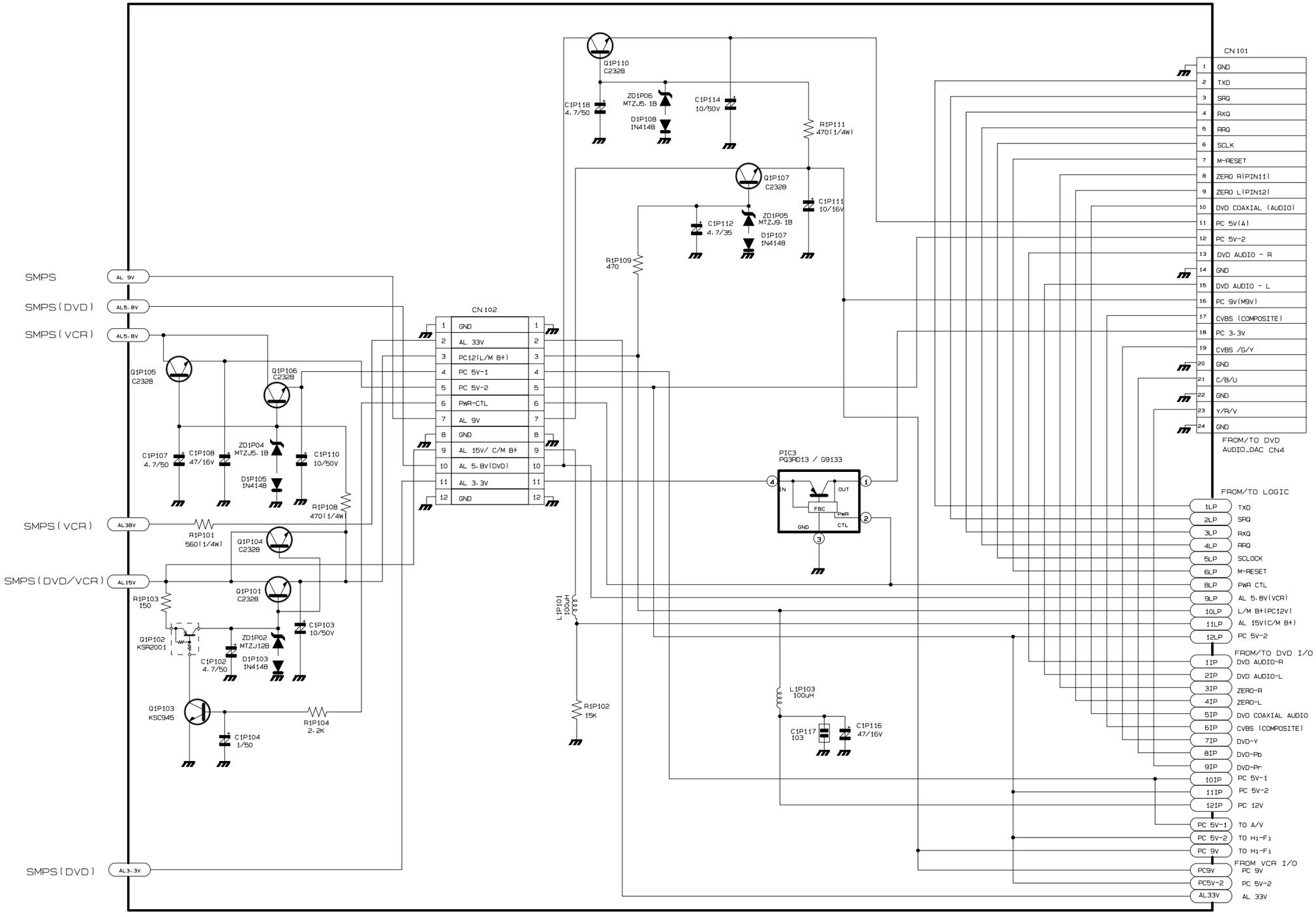
6-1 S.M.P.S.


IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED WITH THE MARK ⚠.
HAVE THE SPECIAL CHARACTERISTICS FOR
SAFETY. WHEN REPLACING ANY OF THESE
COMPONENTS. USE ONLY THE SAME TYPE.
HOT
NOTE:WHEN YOU CHECK THE VOLTAGE
OF THE PARTS IN HOT CIRCUIT.
CONNECT PRIMARY GND TO THE
GND TERMINAL.
PT1SD1
SWITCHING TRANS
R1SS01
2.7(2W)
D1SS03
1T5
D1SS01
1T5
D1SS02
1T5
D1SS04
1T5
C1SD02
100nF
L1SS01
30mH
C1SS01
100nF
W201
JUMPER
W302
JUMPER
V4IS1
SVC471D
F1SS001
T1.6A
CN1SS1
YW396-02V
C1SF01
0.1nF
C1SS05
0.1nF
C1SD11
82/400V
R1SD11
27K(2W)
R1SD13
27K(2W)
C1SD12
103(630V)
R1SR01
270K(1/4W)
R1SR02
270K(1/4W)
R1SR03
270K(1/4W)
D1SS11
UF4007
C1SD16
221(1KV)
R1SQ11
100
D1SF01
1N4148
R1SD14
3.3
Q1SS01
SPA04N60C3
C1SF04
1/50V
R1SS08
47
D1SF02
F1T4
IC1SF1
ICE2BS01
ZD1SS3
MTZ-J20B
C1SF02
33/35V
R1SF06
2.2K
R1SF07
0.33(2W)
R1SF05
22
ZD1SS2
MTZ-J4.3B
C1SD13
103(630V)
C1SS06
33/35V
BD1S01
BEAD
PRIMARY
GND
C1SS03
3.3nF
C1SS04
3.3nF
SMPS
D1SS09
F1T4
C1SS12
10/100V
AL38V
BD1SS3
BEAD
D1SS13
UG20D
L1SS04
10uH
C1SS15
330/25V/105°C
C1SS16
330/25V
AL15V
D1SS05
SG45/SE55
L1SS05
10uH
C1SS18
1000/10V
R1SS06
10K
C1SS17
10/50V
AL3.3V
D1SS07
SG45/SE55
L1SS06
10uH
D1SS08
SG45/SE55
C1SS07
1000/10V
L1SS03
10uH
C1SS08
470/10V
C1SS10
1000/10V
AL5.8V
AL5.8V
TO POWER
R1SS11
100
IC1SS02
PC123
R1SD06
470
R1SS03
1K
C1SS11
100NF
IC1SS2
KA431
R1SS04
3K/F
R1SS05
2.2K/F
POWER

6-2 Power



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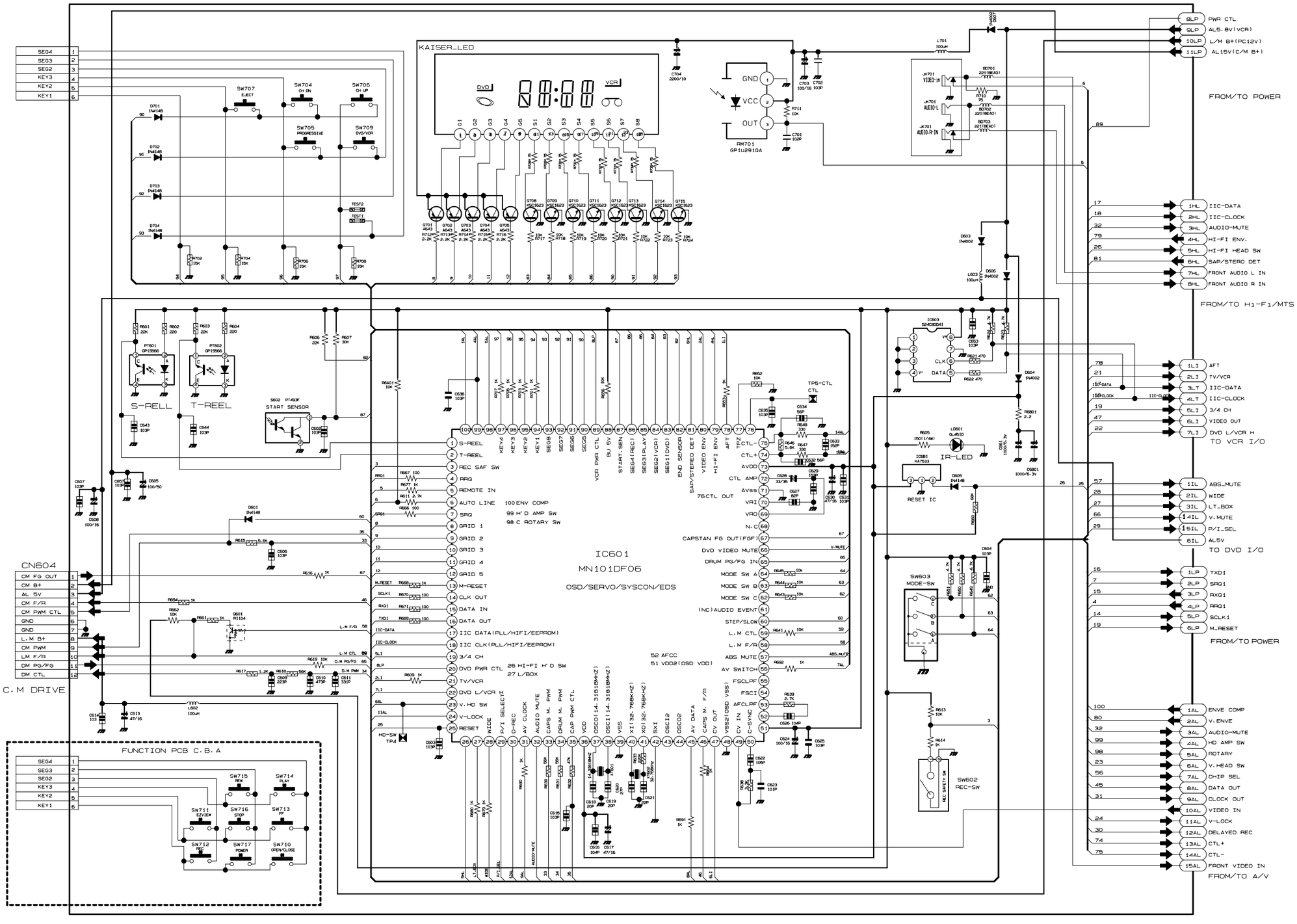
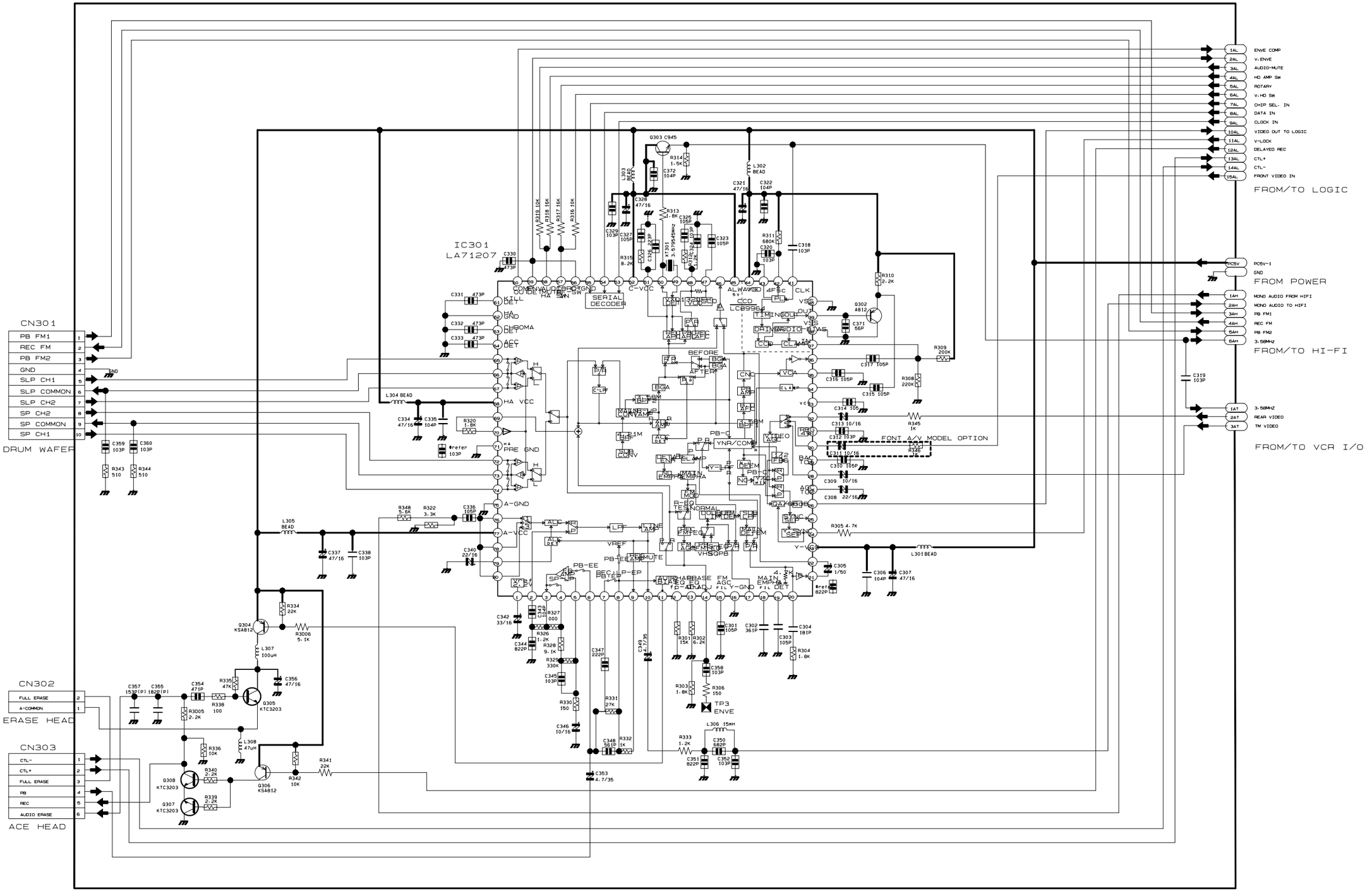
6-3 Logic/Function



6-4 A/V



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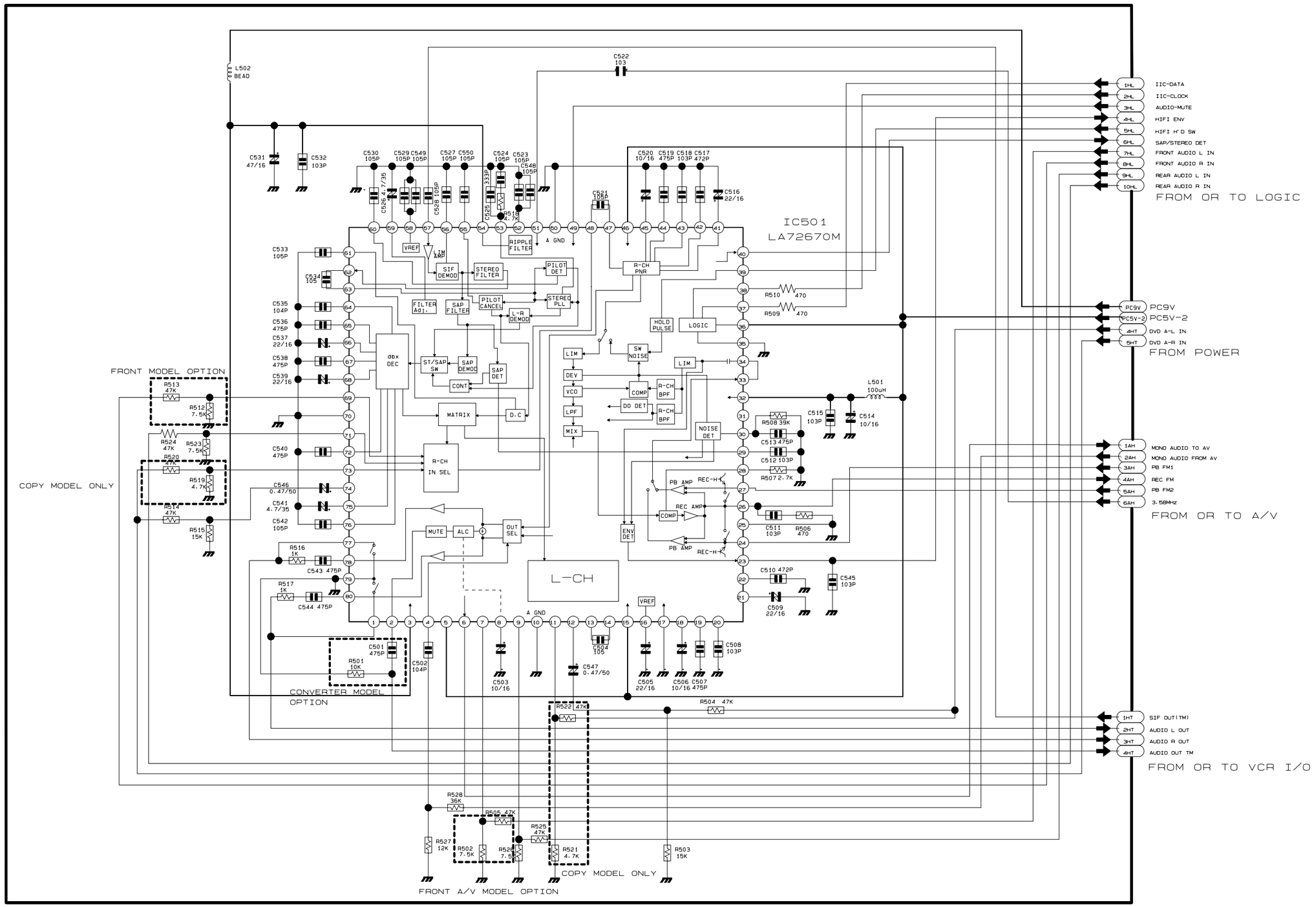
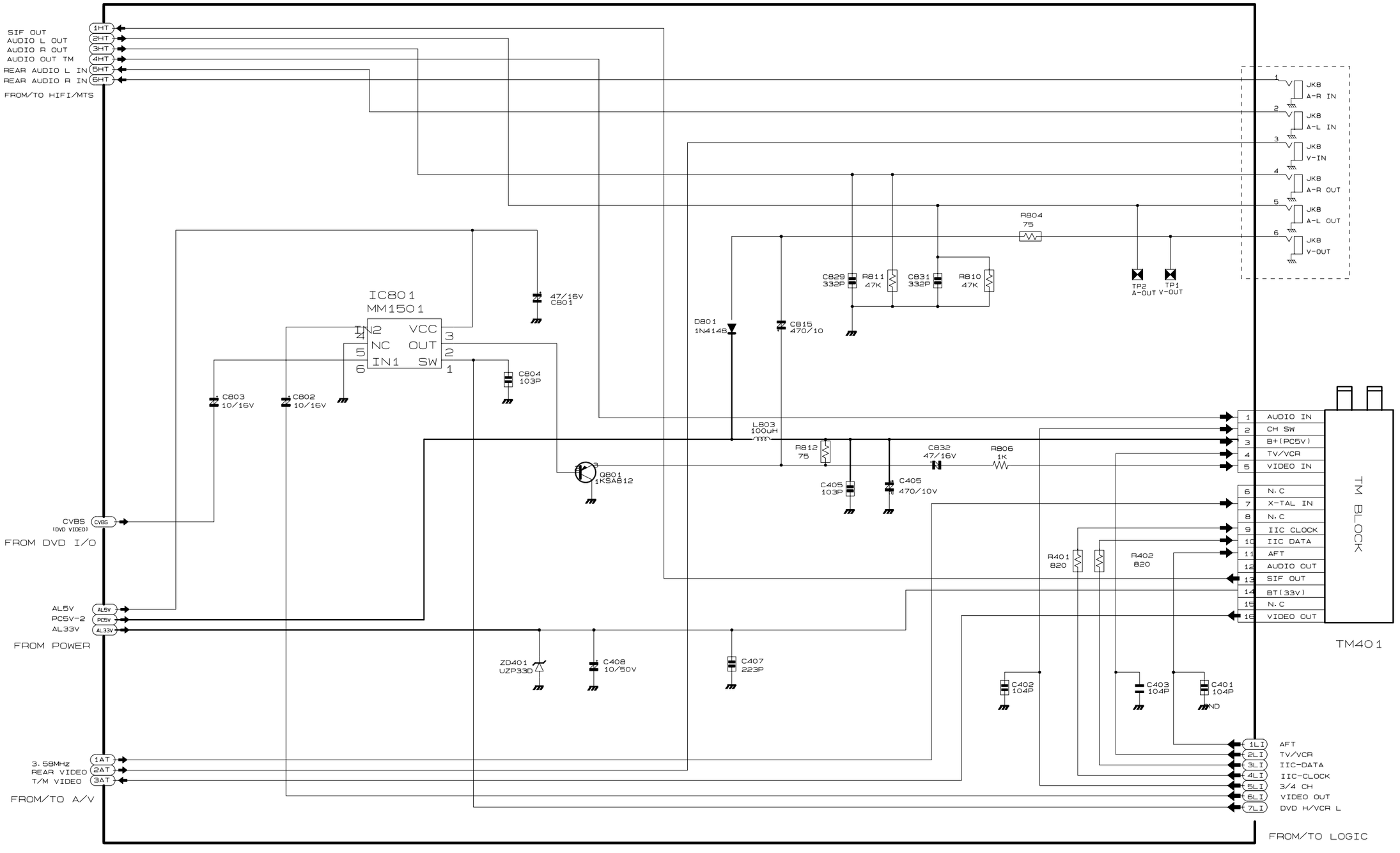
6-5 Hi-Fi/MTS


IC501
LA72670M
L502 BEAD
C522 103
C531 47/16
C532 103P
C530 105P
C529 105P
C549 105P
C527 105P
C550 105P
C524 105P
C523 105P
C548 105P
C526 4.7/35
C528 105P
C525 333P
C521 105P
C520 10/16
C519 475P
C518 103P
C517 472P
C516 22/16
R518 4.7K
VREF
LIM AMP
RIPPLE FILTER
A GND
SIF DEMOD
STEREO FILTER
PILOT DET
R-CH PNR
FILTER Adj.
SAP FILTER
PILOT CANCEL
STEREO PLL
L-R DEMOD
HOLD PULSE
LOGIC
R510 470
R509 470
SW NOISE
LIM
dbx DEC
ST/SAP SW
SAP DEMOD
SAP DET
CONT
DEV
VCO
LPF
MIX
COMP
DO DET
R-CH BPF
MATRIX
D.C
NOISE DET
L501 100uH
C515 103P
C514 10/16
R508 39K
C513 475P
C512 103P
R507 2.7K
R-CH IN SEL
PB AMP
REC-H
REC AMP
ENV DET
C511 103P
R506 470
C510 472P
C509 22/16
C545 103P
MUTE
ALC
OUT SEL
L-CH
C533 105P
C534 105
C535 104P
C536 475P
C537 22/16
C538 475P
C539 22/16
C540 475P
C546 0.47/50
C541 4.7/35
C542 105P
C543 475P
C544 475P
R516 1K
R517 1K
C501 475P
R501 10K
C502 104P
C503 10/16
C504 105
C547 0.47/50
C505 22/16
C506 475P
C507 10/16
C508 103P
R504 47K
R522 47K
R528 36K
R505 47K
R525 47K
R527 12K
R502 7.5K
R526 7.5K
R521 4.7K
R503 15K
FRONT MODEL OPTION
R513 47K
R512 7.5K
R524 47K
R523 7.5K
R520 47K
R519 4.7K
R514 47K
R515 15K
COPY MODEL ONLY
CONVERTER MODEL OPTION
COPY MODEL ONLY
FRONT A/V MODEL OPTION
1HL IIC-DATA
2HL IIC-CLOCK
3HL AUDIO-MUTE
4HL HIFI ENV
5HL HIFI H'D SW
6HL SAP/STEREO DET
7HL FRONT AUDIO L IN
8HL FRONT AUDIO R IN
9HL REAR AUDIO L IN
10HL REAR AUDIO R IN
FROM OR TO LOGIC
PC9V PC9V
PC5V-2 PC5V-2
4HT DVD A-L IN
5HT DVD A-R IN
FROM POWER
1AH MONO AUDIO TO AV
2AH MONO AUDIO FROM AV
3AH PB FM1
4AH REC FM
5AH PB FM2
6AH 3.58MHz
FROM OR TO A/V
1HT SIF OUT(TM)
2HT AUDIO L OUT
3HT AUDIO R OUT
4HT AUDIO OUT TM
FROM OR TO VCR I/O

6-6 TM/Input-Output



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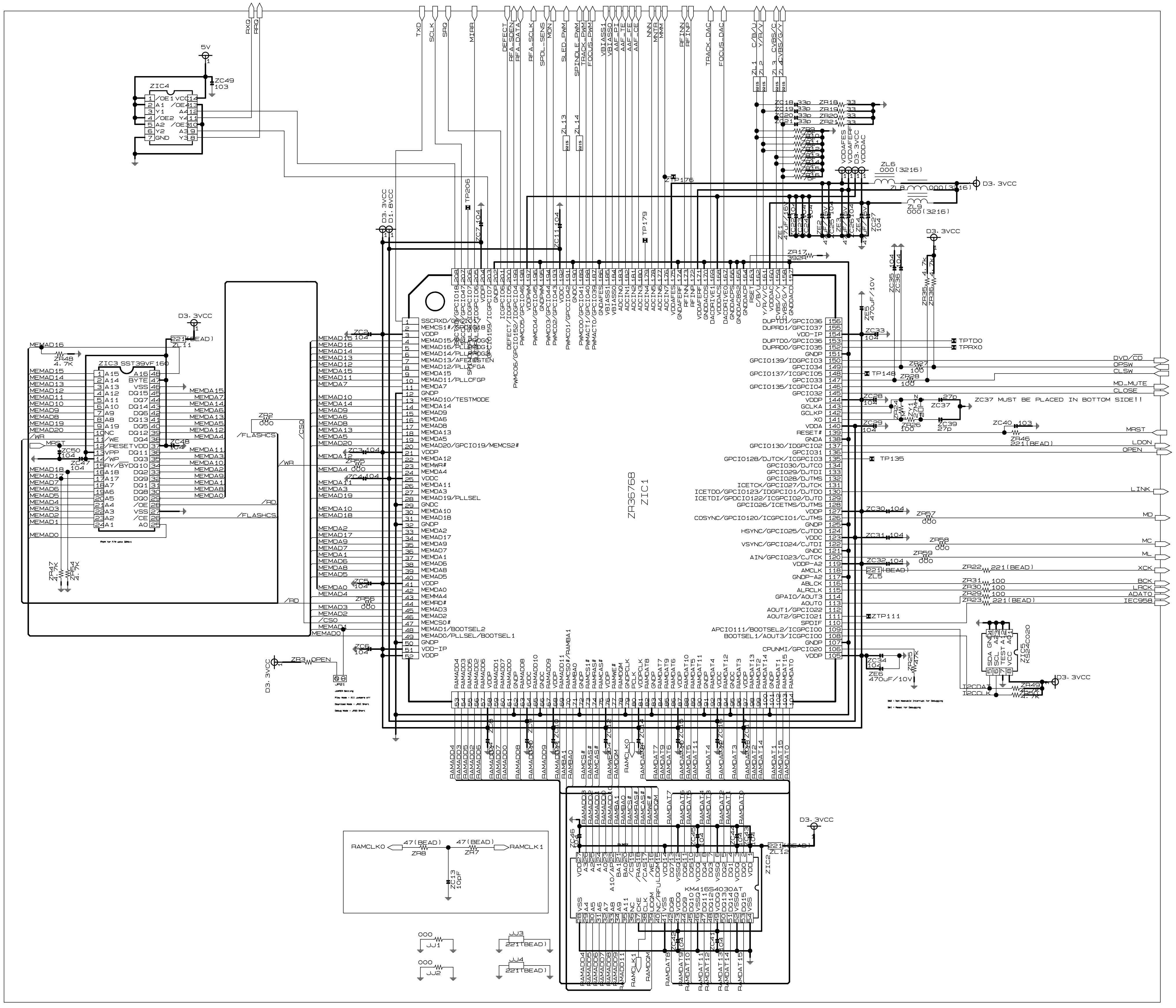
6-7 DVD AV-Decoder


ZIC1
ZR36768
ZIC2
KM416S4030AT
ZIC3 SST39VF160
ZIC4
ZIC5
KS24C020
ZC37 MUST BE PLACED IN BOTTOM SIDE!!
D3.3VCC
D1.8VCC
5V
RXQ
RRQ
TXD
SCLK
SRQ
MIRR
DEFECT
RFA_SDEN
RFA_DATA
RFA_SCLK
SPDL_SENS
MON
SLED_PWM
SPINDLE_PWM
TRACK_PWM
FOCUS_PWM
VBIASS1
VBIASS0
AAF_PI
AAF_TE
AAF_FE
AAF_CE
NNN
MNTR
MMM
RFINN
RFINP
TRACK_DAC
FOCUS_DAC
C/B/U
Y/R/V
CVBS/C
CVBS/G/Y
DVD/CD
OPSW
CLSW
MD_MUTE
CLOSE
MRST
LDON
OPEN
LINK
MD
MC
ML
XCK
BCK
LRCK
ADATO
IEC958
RAMCLK0
RAMCLK1
I2CDAT
I2CCLK
/FLASHCS
/WR
/RD
/CS0

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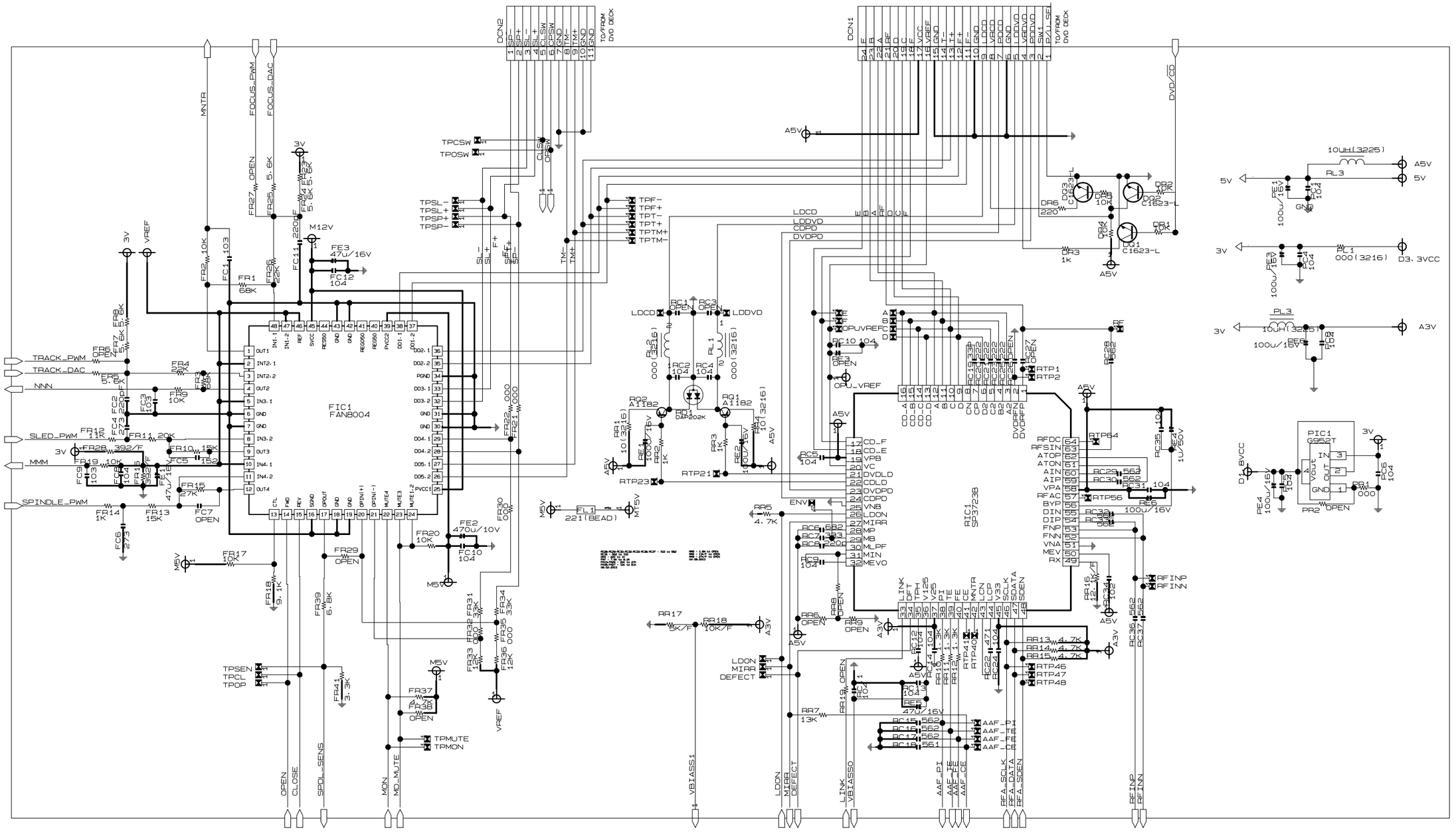
6-8 DVD M_Drive/RF



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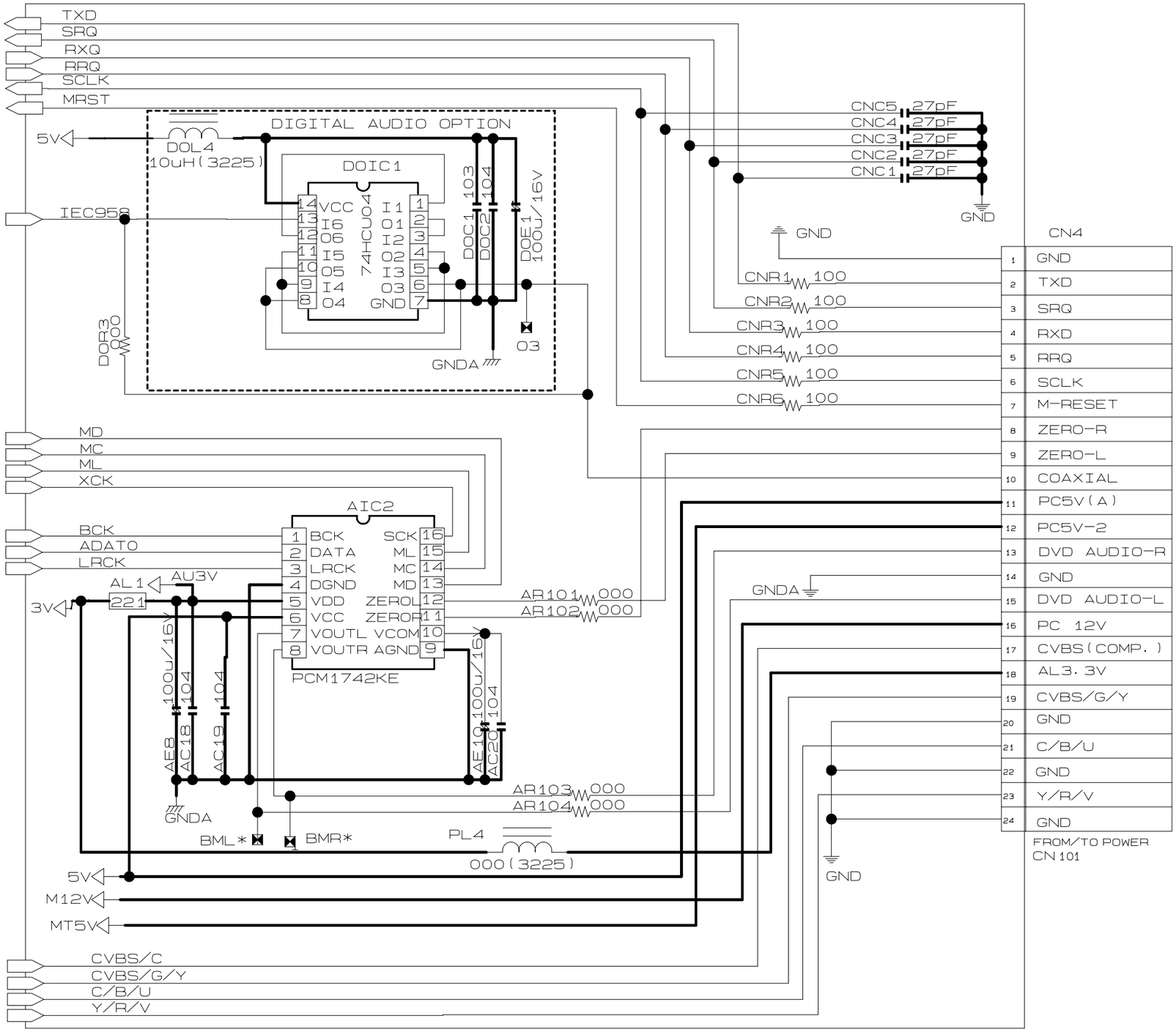
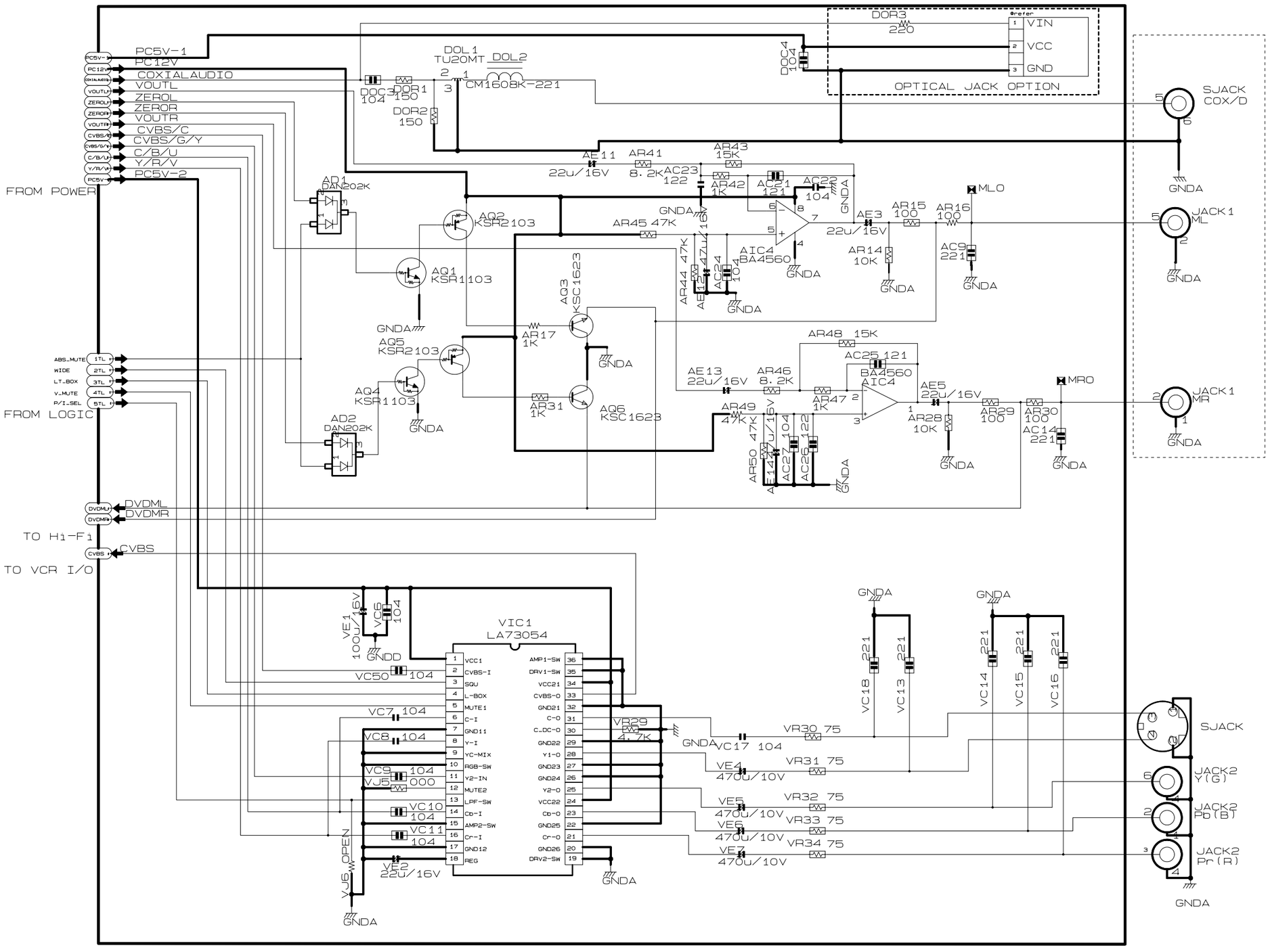
6-9 DVD Audio_Dac



6-10 DVD Input-Output



SAMSUNG ELECTRONICS

SERVICE BULLETIN

Product :	COMBO	**Bulletin No. :**	04-DVD-E0008
Model :	Refer to the below	**Bulletin Date :**	01-Jul-04
Buyer :	Refer to the below	**ECN Date :**	
SUBJECT :	**MAIN PCB CHANGE INFORMATION**	**ECN No. :**	

Background :

Note :

▶ Cause

- a short supply of RF IC from our supplier.

▶ Solution

- two Main PCBs use.

※ two Main PCBs are no problem with current DECK ASSY respectively.
but, make sure there are a difference of its Firmware due to different Main PCBs.

※ in order to ease to approach the unit, we marked "B" at the end of model name in a label rating on the rear.
ex) DVD-V4600/XAA-B

※ attached the pictures of two PCBs.

▶ Applicable models and buyers

- refer to the next page.

Application Date : After 1st. July.

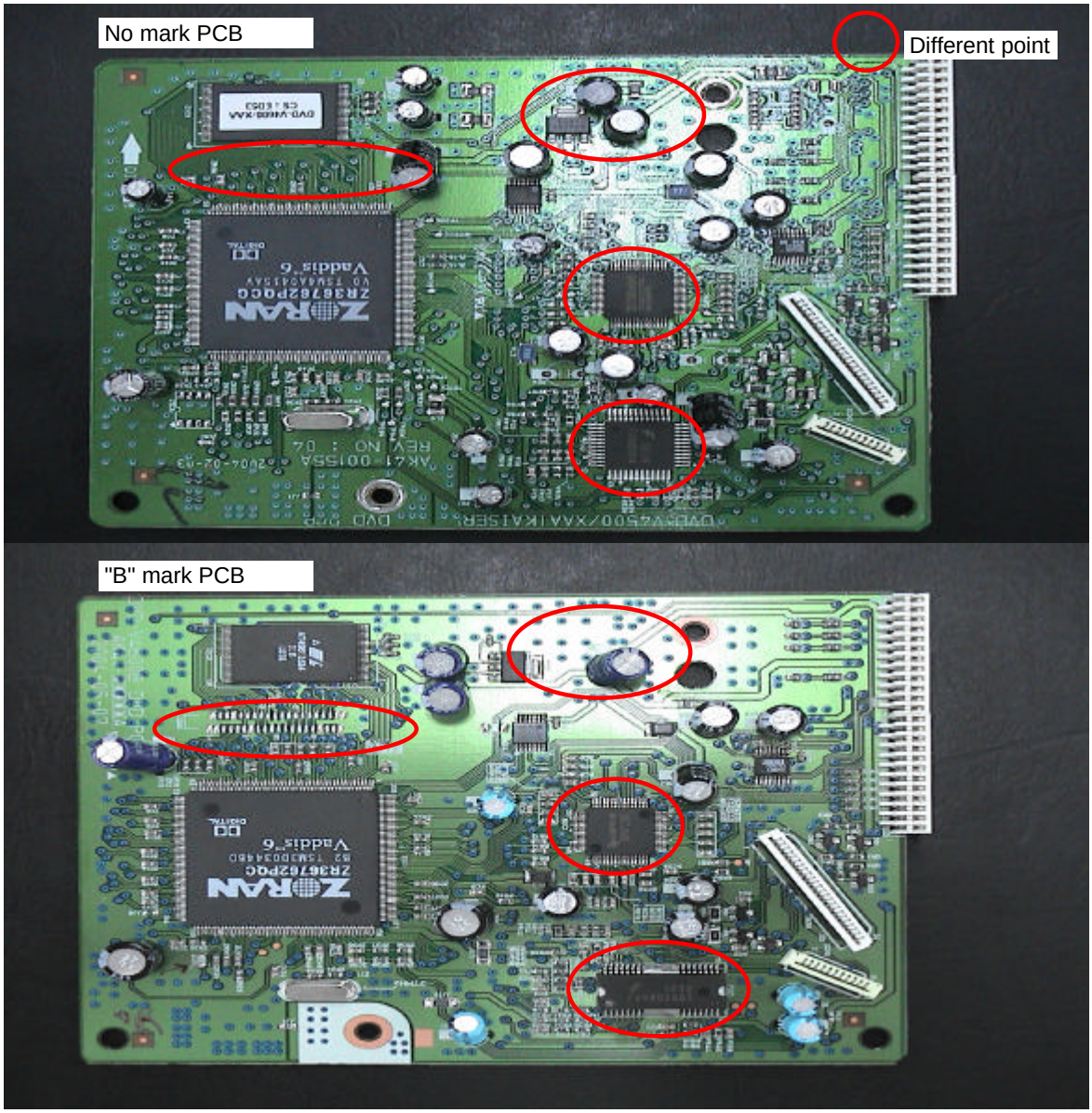
(Interchangeability Code : * I.C)

Location No.	OLD (before) Parts		NEW (changed) Parts		* I.C
	SEC Code	Description	SEC Code	Description	
801	AK92-00341A	ASSY PCB-MAIN DVD	AK92-00341E	ASSY PCB-MAIN DVD	A

Type	A type	B type	C type	D type	E type	F type
Interchange Type Code (* I.C)	OLD (Parts) → Early (Prod.) NEW → Late	OLD (Parts) → Early (Prod.) NEW → Late	OLD (Parts) → Early (Prod.) NEW → Late	OLD (Parts) → Early (Prod.) NEW → Late	Parts Addition (None → New)	Parts deletion (Old → Del.)

Application	Reference (O)	Only Defected sets ( )	Whole sets ( )
Attachment	Schematic Diagram ( )	Component Lay-out ( )	Exploded View ( )
	Mechanical Diagram ( )	None ( )	Others (●)
Product Month : About Dec. 13. 1999		**Serial No. (~ from) :**	
Published by :	**Checked by :**	**Approved by :**	**J. S. PARK**

APPLICABLE MODELs and BUYERs

DVD-V4300/GEN	DVD-V4600/XAA	DVD-V4300/GEN	DVD-V4600/XAA
DVD-V4300/RCL	DVD-V4600/XAC	DVD-V4300/RCL	DVD-V4600/XAC
DVD-V4300/STR	DVD-V4600/XAO	DVD-V4300/STR	DVD-V4600/XAO
DVD-V4300/XAO	DVD-V4600/XAP	DVD-V4300/XAO	DVD-V4600/XAP
DVD-V4300/XAP	DVD-V4600/XAX	DVD-V4300/XAP	DVD-V4600/XAX
DVD-V4300/XAX	DVD-V4600A/XAA	DVD-V4300/XAX	DVD-V4600A/XAA
DVD-V4500/XAA	DVD-V4650/RCL	DVD-V4500/XAA	DVD-V4650/RCL
DVD-V4500/XAC	DVD-V4650/XAX	DVD-V4500/XAC	DVD-V4650/XAX
DVD-V4600/GEN	DVD-V4700/XAA	DVD-V4600/GEN	DVD-V4700/XAA
DVD-V4600/RCL	DVD-V4700/XAC	DVD-V4600/RCL	DVD-V4700/XAC
DVD-V4600/STR	DVD-V9090/AFS	DVD-V4600/STR	DVD-V9090/AFS

Picture of each PCB